



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 168937

TO: Sarvamangala Devi
Art Unit: 1645
Location: REM-3C18
Serial Number: 09/393590

Friday, October 28, 2005

From: Beverly Shears
Location: Biotech-Chem Library
REM 1A54
Phone: 571-272-2528
beverly.shears@uspto.gov

Search Notes

168937

From: Devi, Sarvamangala
Sent: Wednesday, October 19, 2005 8:42 AM
To: STIC-Biotech/ChemLib
Cc: Shears, Beverly
Subject: 09393590

Please ask Ms. BEVERLY SHEARS to perform this search.

Please perform a text search and an inventors' name search in application 09/393,590. Inventors: Elizabeth Moyer and Pamela Hirtzer.

Claim 1. A stable stabilized liquid pharmaceutical botulinum toxin (BOTOX) formulation for therapeutic use in humans, comprising a pharmaceutically acceptable buffered saline capable of providing a buffered pH range to the formulation between pH 5 and pH 6 and a therapeutic concentration suitable for use in humans of purified botulinum toxin; and the formulation is capable of being stable as a liquid when stored for at least one year at a temperature between 0 and 10 degrees centigrade $\pm 10\%$.
Claim 2. The formulation of claim 1, wherein said temperature is 5 ± 3 degrees centigrade.
Claim 3. The formulation of claim 1, wherein said temperature is 4 ± 2 degrees centigrade.
Claim 4. The formulation of claim 1, wherein said buffered pH is pH 5.6.
Claim 5. The formulation of claim 1, wherein said toxin formulation is stable in liquid form for at least two years.
Claim 6. The formulation of claim 1, wherein said buffered saline has a pK in the range of pH 4.5-6.5.
Claim 7. The formulation of claim 6, wherein said buffered saline is phosphate buffer, phosphate-citrate buffer, acetate buffer, and succinate buffer.
Claim 8. The formulation of claim 1, wherein said botulinum toxin is of a botulinum toxin type A, B, C1, C2, D, E, F or G.
Claim 9. The formulation of claim 8, wherein said botulinum toxin is botulinum toxin Type B present at a concentration in the range of 10 U-20,000 U/ml $\pm 10\%$.
Claim 10. The formulation of claim 9, wherein said botulinum toxin Type B is present in a high molecular weight complex of 700 $\pm 10\%$ kilodaltons.
Claim 11. The formulation of claim 9, wherein said botulinum toxin Type B is present at a concentration between 1000-5000 U/ml.
Claim 12. The formulation of claim 8, wherein said botulinum toxin is botulinum toxin Type A, present at a concentration in the range of between 20-2000 U/ml.
Claim 13. The formulation of claim 12, wherein said botulinum toxin Type A is present at a concentration in the range of between 100-1000 U/ml.
Claim 14. The formulation of claim 1, which further includes an excipient protein selected from the group consisting of serum albumin, recombinant human serum albumin, and gelatin.
Claim 16. A stabilized liquid pharmaceutical botulinum toxin formulation for therapeutic use in humans, comprising a pharmaceutically acceptable liquid buffered saline capable of providing a buffered pH range to the formulation between pH 5 and pH 6 and a therapeutic concentration suitable for use in humans of purified botulinum toxin; and the toxin formulation is capable of being stable as a liquid when stored for at least about 6 months at a temperature between 10 and 30 $\pm 10\%$ degrees centigrade.
Claim 17. The formulation of claim 16, wherein said temperature is 25 degree centigrade.
Claim 18. The formulation of claim 16, wherein said buffered pH range is pH 5.6.
Claim 19. The formulation of claim 16, wherein said buffered saline has a pK in the range of pH 4.5-6.5.
Claim 20. The formulation of claim 19, wherein said buffered saline is phosphate buffer, phosphate-citrate buffer, or succinate buffer.
Claim 21. The formulation of claim 16, wherein said botulinum toxin is of botulinum toxin type A, B, C1, C2, D, E, F or G.
Claim 22. The formulation of claim 21, wherein said botulinum toxin is botulinum toxin Type B present at a concentration of between 100-20,000 U/ml $\pm 10\%$.

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

Date completed: _____

Searcher: Beverly e 2528

Terminal time: _____

Elapsed time: _____

CPU time: _____

Total time: _____

Number of Searches: _____

Number of Databases: _____

Search Site

_____ STIC

_____ CM-1

_____ Pre-S

Type of Search

_____ N.A. Sequence

_____ A.A. Sequence

_____ Structure

_____ Bibliographic

Vendors

_____ ☒ IG

_____ ☒ STN

_____ ☒ Dialog

_____ APS

_____ Geninfo

_____ SDC

_____ DARC/Questel

_____ Other

09/393590

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STRUCTURE FILE UPDATES: 26 OCT 2005 HIGHEST RN 866186-08-5
DICTIONARY FILE UPDATES: 26 OCT 2005 HIGHEST RN 866186-08-5

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

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- key terms

E BOTOX/CN 5
L1 1 SEA ABB=ON PLU=ON BOTOX/CN
E BOTULIN TOXIN/CN 5
L2 6 SEA ABB=ON PLU=ON BOTULIN TOXIN? /CN
L3 8 SEA ABB=ON PLU=ON BOTULIN NEUROTOXIN? /CN
L4 8 SEA ABB=ON PLU=ON BOTULINUM TOXIN? /CN
L5 14 SEA ABB=ON PLU=ON BOTULINUM NEUROTOXIN? /CN
L6 134 SEA ABB=ON PLU=ON (BOTULIN A ? OR BOTULIN B ? OR BOTULIN
C1 ? OR BOTULIN C2 ? OR BOTULIN D ? OR BOTULIN E ? OR
BOTULIN F ?)/CN
L7 2 SEA ABB=ON PLU=ON (BOTULINUM A ? OR BOTULINUM B ? OR
BOTULINUM C1 ? OR BOTULINUM C2 ? OR BOTULINUM D ? OR
BOTULINUM E ? OR BOTULINUM F ?)/CN
L8 156 SEA ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7

E PHOSPHATE/CN
L9 9 SEA ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN
OR "PHOSPHATE (H2PO4-)"/CN OR "PHOSPHATE (H2PO41-)"/CN OR
"PHOSPHATE (HPO42-)"/CN OR "PHOSPHATE (P2O74-)"/CN OR
"PHOSPHATE (P4O123-)"/CN) OR "PHOSPHATE (P6O186-)"/CN OR
("PHOSPHATE (PO3-)"/CN OR "PHOSPHATE (PO31-)"/CN OR
"PHOSPHATE (PO32-)"/CN) OR "PHOSPHATE (PO43-)"/CN OR

09/393590

"PHOSPHATE (PO4H2-)" /CN
E CITRATE/CN 5
L10 1 SEA ABB=ON PLU=ON CITRATE/CN
E ACETATE/CN 5
L11 1 SEA ABB=ON PLU=ON ACETATE/CN
E SUCCINATE/CN 5
L12 1 SEA ABB=ON PLU=ON SUCCINATE/CN
L13 12 SEA ABB=ON PLU=ON L9 OR L10 OR L11 OR L12
L14 445 SEA ABB=ON PLU=ON SODIUM CHLORIDE ?/CN

E BONT/CN 5

L15 6 S (BOTULIN G ? OR BOTULINUM G ?) /CN
L16 161 S L8 OR L15

E HUMAN SERUM ALBUMIN/CN 5
L21 3 S HUMAN SERUM ALBUMIN ?/CN
E SERUM ALBUMIN/CN 5
L22 62 S SERUM ALBUMIN ?/CN
E GELATINS/CN 5
L23 1 S E3
L24 66 S L21 OR L22 OR L23

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FILE COVERS 1907 - 27 Oct 2005 VOL 143 ISS 18
FILE LAST UPDATED: 26 Oct 2005 (20051026/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON BOTOX/CN
L2 6 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULIN TOXIN? /CN
L3 8 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULIN NEUROTOXIN? /CN
L4 8 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULINUM TOXIN? /CN
L5 14 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULINUM NEUROTOXIN?
/CN
L6 134 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULIN A ? OR BOTULIN
B ? OR BOTULIN C1 ? OR BOTULIN C2 ? OR BOTULIN D ? OR
BOTULIN E ? OR BOTULIN F ?) /CN
L7 2 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULINUM A ? OR
BOTULINUM B ? OR BOTULINUM C1 ? OR BOTULINUM C2 ? OR

Searcher : Shears 571-272-2528

BOTULINUM D ? OR BOTULINUM E ? OR BOTULINUM F ?)/CN
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 L5 OR L6 OR L7
 L9 9 SEA FILE=REGISTRY ABB=ON PLU=ON (PHOSPHATE/CN OR
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 "PHOSPHATE (P6O186-)/CN OR ("PHOSPHATE (PO3-)/CN OR
 "PHOSPHATE (PO31-)/CN OR "PHOSPHATE (PO32-)/CN) OR
 "PHOSPHATE (PO43-)/CN OR "PHOSPHATE (PO4H2-)/CN
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 L11 1 SEA FILE=REGISTRY ABB=ON PLU=ON ACETATE/CN
 L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON SUCCINATE/CN
 L13 12 SEA FILE=REGISTRY ABB=ON PLU=ON L9 OR L10 OR L11 OR L12
 L15 6 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULIN G ? OR BOTULINUM
 G ?)/CN
 L16 161 SEA FILE=REGISTRY ABB=ON PLU=ON L8 OR L15
 L17 4721 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 OR (BO OR BOTULIN?) (5A
) (NT OR TOXIN OR NEUROTOXIN OR TOX#) OR BOTOX# OR BONT# OR
 BOTX# OR (BT OR BN OR BNT#) (S) BOTULIN? OR BOTULIN? (3A) (A
 OR B OR C1 OR C2 OR D OR E OR F OR G)
 L18 1354347 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR PHOSPHATE OR
 CITRATE OR ACETATE OR SUCCINATE OR SUCCINIC OR BUTANEDIOIC
 OR ACETIC
 L19 246 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND L18
 L20 63 SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND (14) OR NACL OR
 (NA OR SODIUM) (W) (CL OR CHLORIDE) OR SALINE)
 L21 3 SEA FILE=REGISTRY ABB=ON PLU=ON HUMAN SERUM ALBUMIN ?/CN
 L22 62 SEA FILE=REGISTRY ABB=ON PLU=ON SERUM ALBUMIN ?/CN
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON GELATINS/CN
 L24 66 SEA FILE=REGISTRY ABB=ON PLU=ON L21 OR L22 OR L23
 L26 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND (L24 OR HSA OR
 ALBUMIN OR GELATIN)

Should read "L14"
 See L58-L65

L26 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
 ED Entered STN: 08 Jul 2005
 ACCESSION NUMBER: 2005:589208 HCAPLUS
 DOCUMENT NUMBER: 143:93565
 TITLE: Marker proteins and methods for diagnosing
 endometrial cancer or phase
 INVENTOR(S): Colgan, Terence J.; Siu, K. W. Michael; Romaschin,
 Alexander D.; Yang, Eric C. C.
 PATENT ASSIGNEE(S): Mount Sinai Hospital, Can.; York University;
 University Health Network
 SOURCE: PCT Int. Appl., 199 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005061725	A1	20050707	WO 2004-CA2172	20041221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,				
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,				
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP,				
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,				

09/393590

MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC,
NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-532601P P 20031223

US 2004-630990P P 20041124

AB Methods for detecting endometrial diseases or an endometrium phase in a subject are described comprising measuring endometrial markers or polynucleotides encoding the markers in a sample from the subject. The invention also provides localization or imaging methods for endometrial diseases, and kits for carrying out the methods of the invention. The invention also contemplates therapeutic applications for endometrial diseases employing endometrial markers, polynucleotides encoding the markers, and/or binding agents for the markers. Thus, isotope-coded affinity tag (ICAT) anal. was used to identify differentially expressed proteins in proliferative and secretory endometria as well as in normal and cancerous endometrial tissues.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 20 Jun 2005

ACCESSION NUMBER: 2005:531598 HCAPLUS

DOCUMENT NUMBER: 143:126710

TITLE: Pilot study of the safety and efficacy of Myobloc (**botulinum toxin type B**) for treatment of axillary hyperhidrosis

AUTHOR(S): Baumann, Leslie; Slezinger, Anele; Halem, Monica; Vujevich, Justin; Martin, Lucy K.; Black, Laura; Bryde, Joy

CORPORATE SOURCE: Department of Dermatology and Cutaneous Surgery, Division of Cosmetic Dermatology, University of Miami School of Medicine, Miami, FL, USA

SOURCE: International Journal of Dermatology (2005), 44(5), 418-424

CODEN: IJDEBB; ISSN: 0011-9059

PUBLISHER: Blackwell Publishing Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Background: **Botulinum toxin type B** (BTX-B, Myobloc, San Francisco, CA, USA) was FDA-approved for the treatment of cervical dystonia in Dec. 2000. It has since been used off-label for the treatment of axillary hyperhidrosis. However, there are sparse data in the medical literature evaluating the safety and efficacy of Myobloc (**botulinum toxin type B**) for this indication. Objective: To assess the safety, efficacy and duration of action of Myobloc (**botulinum toxin type B**) in the treatment of bilateral axillary hyperhidrosis. Methods: This study was a double-blinded, randomized, pilot study conducted in an outpatient office setting at a private academic medical center beginning in Nov. 2001. Twenty-three male and

female volunteers between the ages of 18 and 80 were screened for participation; 20 participants with primary axillary hyperhidrosis were enrolled. Participants were injected s.c. with either Myobloc (**botulinum toxin type B**) (2500 U, or 0.5 mL, per axilla) or 0.5 mL vehicle (100 mM NaCl, 10 mM succinate, and 0.5 mg/mL human albumin) into bilateral axillae. Participants who received placebo were rolled over and received Myobloc (**botulinum toxin type B**) at subsequent visits. All participants were followed until sweating returned to baseline levels. This trial was initially conceived as a placebo-controlled study; however, owing to the insufficient size of the placebo group, the placebo arm of this trial was dropped during data anal. The main outcome measures were safety, efficacy, and duration of effect. Results: According to participant assessment of axillary hyperhidrosis improvement (A-HI) and quality of life (A-HQOL) scores and the physician assessment scores, a significant difference was observed in treatment response at Day 30 in the participants receiving Myobloc (**botulinum toxin type B**) injections. Duration of action ranged from 2.2 to 8.1 mo (mean 5.0 mo). The adverse event profile included bruising, flu-like symptoms, and dry eyes. Conclusion: Myobloc (**botulinum toxin type B**) proved to be safe and efficacious for the treatment of bilateral axillary hyperhidrosis. More studies are needed to assess the duration of response using different doses of Myobloc (**botulinum toxin type B**).

IT 93384-44-2, Myobloc

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pilot study showed Myobloc was safe and effective with acceptable duration of action and minimal adverse events in treatment of patient with bilateral axillary hyperhidrosis)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L26 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 07 Dec 2003

ACCESSION NUMBER: 2003:950462 HCAPLUS

DOCUMENT NUMBER: 140:8814

TITLE: Pharmaceutical preparation of **botulinum neurotoxin**

INVENTOR(S): Zabudkin, Alexander F.; Krasnopol'sky, Juri M.; Itkin, Aleksandr M.; Itkin, Dmitry M.

PATENT ASSIGNEE(S): Ukraine

SOURCE: U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003224020	A1	20031204	US 2003-447417	20030528
WO 2003101483	A1	20031211	WO 2003-US16869	20030528
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ,				

LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
 NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
 TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
 NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2002-385286P

P 20020531

AB A pharmaceutical preparation of **botulinum neurotoxins** free of human blood products (such as human **albumin**), the preparation comprising a **botulinum neurotoxin** incorporated in phosphatidylcholine liposomes. A flask is filled with a solution of phosphatidylcholine in ethanol containing 0.1 g lipid. The solution is subjected to evaporation at 35° until a lipid film is formed. The lipid film is then resuspended in 10-L sterile 0.9% **sodium chloride** solution with 7.0-7.4 **phosphate** buffer containing 1 mg of **botulinum** type A **neurotoxin** complex (95-98% purity). After the lipid film is successfully resuspended from the flask walls, the resulting emulsion is thoroughly mixed for 30 min until homogeneous emulsion is produced. Such emulsion is then transferred into a homogenizing reactor and the emulsion is homogenized at a pressure of 60 MPa and a temperature of 30-35°. When an optical d. of 0.1-0.12 is achieved, 25 g lactose is added to the emulsion. The resulting emulsion is then sequentially filtered. The resulting sterile emulsion is then distributed into vials or ampuls, each containing 0.1 mL sterile emulsion. The vials or ampuls are deep frozen at -70° for 48 h, followed by lyophilization. After lyophilization, the vials are hermetically sealed with an atmospheric of inert gas introduced over the lyophilized emulsion in the vial.

IT 93384-43-1, Botulin A 93384-44-2
 , Botulin B 93384-46-4, Botulin
 D 93384-47-5, Botulin E
 107231-12-9, Botulin 107231-13-0,
 Botulin C1 107231-14-1, Botulin
 C2 107231-15-2, Botulin F
 107231-16-3, Botulin G
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical preparation of **botulinum neurotoxin**)

L26 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 24 Mar 2000

ACCESSION NUMBER: 2000:190943 HCAPLUS

DOCUMENT NUMBER: 132:227422

TITLE: Stable liquid formulations of **Botulinum toxin**

INVENTOR(S): Moyer, Elizabeth; Hirtzer, Pamela

PATENT ASSIGNEE(S): Elan Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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Searcher : Shears 571-272-2528

09/393590

WO 2000015245	A2	20000323	WO 1999-US20912	19990909
WO 2000015245	A3	20000608		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
TW 574036	B	20040201	TW 1999-88114941	19990831
CA 2342243	AA	20000323	CA 1999-2342243	19990909
AU 9958214	A1	20000403	AU 1999-58214	19990909
AU 755556	B2	20021212		
BR 9913585	A	20010605	BR 1999-13585	19990909
EP 1112082	A2	20010704	EP 1999-945649	19990909
EP 1112082	B1	20020731		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200100728	T2	20010821	TR 2001-200100728	19990909
SI 20566	C	20011231	SI 1999-20081	19990909
EE 200100140	A	20020617	EE 2001-140	19990909
JP 2002524527	T2	20020806	JP 2000-569829	19990909
AT 221386	E	20020815	AT 1999-945649	19990909
ES 2181473	T3	20030216	ES 1999-945649	19990909
NZ 509349	A	20030829	NZ 1999-509349	19990909
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NO 2001001207	A	20010509	NO 2001-1207	20010309
LV 12684	B	20011020	LV 2001-56	20010410
BG 105435	A	20011231	BG 2001-105435	20010410
LT 4959	B	20021025	LT 2001-41	20010410
PRIORITY APPLN. INFO.:			US 1998-99870P	P 19980911
			WO 1999-US20912	W 19990909

AB The invention includes liquid formulations of **botulinum toxin** that are stable to storage in liquid form at standard refrigerator temps. for at least 1-2 yr and to storage at higher temps. for at least 6 mo. The invention also includes methods of treatment using such formulations and uses of such formulations in the manufacture of medicaments for various therapeutic and cosmetic treatments. A formulation was prepared containing **Botulinum toxin** Type B 500±100 LD50U/mL, di-Na **succinate** 10 mM, **NaCl** 100 mM, human **albumin** 0.5 mg/mL, and HCl for pH adjustment.

IT **126-44-3, Citrate**, biological studies
14265-44-2, Phosphate, biological studies
 RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (stable liquid formulations of **Botulinum toxin**)

L26 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 10 Dec 1994

ACCESSION NUMBER: 1994:674169 HCAPLUS

DOCUMENT NUMBER: 121:274169

TITLE: Recovery of type A **botulinal toxin** following lyophilization

AUTHOR(S): Goodnough, Michael C.; Johnson, Eric A.

CORPORATE SOURCE: Food Res. Inst., Univ. Wisconsin, Madison, WI, 53706, USA

Searcher : Shears 571-272-2528

SOURCE: ACS Symposium Series (1994), 567 (Formulation and Delivery of Proteins and Peptides), 193-203
CODEN: ACSMC8; ISSN: 0097-6156

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Type A botulinum toxin is diluted to very low concns. (ng/mL) for medical use and preserved by lyophilization in a mixture of human serum albumin and sodium chloride at a slightly alkaline pH. This com. process results in considerable loss of activity. In this study, conditions were found that gave >90% recovery of the toxicity following lyophilization of solns. containing 20-1000 mouse 50% LDs (1-50 ng of toxin complex). Full recovery of starting toxicity was obtained upon drying 0.1 mL when the pH was maintained below 7.0 and serum albumins or other protein excipients were used as stabilizers without sodium chloride. Possible mechanisms of toxin inactivation were examined and may include aggregation, deamidation, and peptide bond hydrolysis.

L26 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ED Entered STN: 13 Dec 1992

ACCESSION NUMBER: 1992:639677 HCAPLUS
DOCUMENT NUMBER: 117:239677
TITLE: Stabilization of botulinum toxin type A during lyophilization

AUTHOR(S): Goodnough, Michael C.; Johnson, Eric A.
CORPORATE SOURCE: Dep. Food Microbiol. Toxicol., Univ. Wisconsin, Madison, WI, 53706, USA

SOURCE: Applied and Environmental Microbiology (1992), 58(10), 3426-8
CODEN: AEMIDF; ISSN: 0099-2240

DOCUMENT TYPE: Journal
LANGUAGE: English

AB Botulinum toxin for medical use is diluted to very low concns. (nanograms per mL); when it is preserved by lyophilization, considerable loss of activity can occur. In the present study, conditions that gave >90% recovery of the toxicity after lyophilization of solns. containing 20 to 1000 mouse 50% LDs per mL were found. Toxicity was recovered upon drying 0.1 mL of toxin solution when the pH was maintained below 7 and bovine or human serum albumins were used as stabilizers. Various other substances tested with albumin, including glucose, sucrose, trehalose, mannitol, glycine, and cellobiose, did not increase recovery on drying.

IT 93384-43-1, Botulin A
RL: PROC (Process)
(stabilization of, during lyophilization)

L26 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN
ED Entered STN: 22 Apr 2001

ACCESSION NUMBER: 1966:107065 HCAPLUS
DOCUMENT NUMBER: 64:107065
ORIGINAL REFERENCE NO.: 64:20234b-d
TITLE: The effect of temperature on toxin formation and toxin stability of Clostridium botulinum type E in different environments

AUTHOR(S): Abrahamsson, Kerstin; Gullmar, B.; Molin, N.
CORPORATE SOURCE: Swedish Inst. Food Preserv. Res., Goteborg

SOURCE: Canadian Journal of Microbiology (1966), 12(2),
385-94
CODEN: CJMIAZ; ISSN: 0008-4166
DOCUMENT TYPE: Journal
LANGUAGE: English

AB *C. botulinum* type E produced toxin at temps. between 3° and 30° in a chopped meat medium and in a fish dialyzate. The toxin was produced more rapidly in the meat medium. No toxin was found after 1 year of incubation at 1°. At 3°, slight toxin production was noticed after 120 days, when the inoculum consisted of a mixture of vegetative cells and spores. The lowest concentration of NaCl necessary to inhibit toxin production varied with the incubation temperature and duration of storage. The inhibiting effect of NaCl was more pronounced at a lower temperature. Type E spores mixed in fish-meat medium heated for 110 min. at 80° or for 10 min. at 90° produced toxin during prolonged storage at 20% but not after they were heated at 90° for 20 min. Toxin (type E) proved more thermostable in meat broth and fish dialyzate than in phosphate buffer solution or in buffer supplemented with gelatin. In meat broth, the toxin was inactivated after 5 min. at 65°.

L26 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ED Entered STN: 22 Apr 2001

ACCESSION NUMBER: 1966:5105 HCAPLUS

DOCUMENT NUMBER: 64:5105

ORIGINAL REFERENCE NO.: 64:948e-g

TITLE: Fractionation of proteins in an aqueous medium

INVENTOR(S): Polson, Alfred

PATENT ASSIGNEE(S): South African Inventions Development Corp.

SOURCE: 9 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
GB 1006258		19650929	GB	
PRIORITY APPLN. INFO.:			ZA	19620103

AB A process is described for rendering less soluble or less dispersible in an aqueous liquid a proteinaceous substance by addition of a polyethylene glycol (I) of mol. weight 1500-20,000. The process is useful for fractionating and purifying various types of protein. Human plasma was diluted with an equal volume of H₂O, giving a protein concentration of

3.8%

by weight. Portions of this soluble (5 ml.) were added to 5-ml. proteins of I (mol. weight 6000) (II) of increasing concentration dissolved in a 1/3M phosphate buffer of pH 7.0. The mixts. were kept at 21° for 30 min. then spun at 14,000 rpm. for 15 min.

At 3% II concentration, the precipitated fraction was fibrinogen concentrate. At 8%

II, the γ -globulin fraction was obtained and between 21 and 26%

II, the albumin fraction was obtained contaminated with a trace of β -globulin. Fractionation could also be achieved at any particular I concentration by successive lowering of the temperature

Fractionation

was more readily achieved at lower protein concns. and precipitation proceeded

more readily at low salt concns. Optimally, protein sepns. were carried out at protein concns. of 0.4% and 20°, giving fibrinogen at 0-4% II, γ -globulin at 4-8% II, β -globulin at 8-12% II, and α -1-and α -2-globulins and **albumins** at >12% II. At pH 4.6, the γ -globulins could be optionally separated, and at pH 5.8 the β - and γ -globulins. Other proteins separated similarly were derived from *Clostridium novyi* toxin, *C. botulinum* toxin Type D, and pancreatic deoxyribonuclease. The preps. of pure γ -globulin and fibrinogen are also described.

L1	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	BOTOX/CN
L2	6	SEA FILE=REGISTRY ABB=ON	PLU=ON	BOTULIN TOXIN? /CN
L3	8	SEA FILE=REGISTRY ABB=ON	PLU=ON	BOTULIN NEUROTOXIN? /CN
L4	8	SEA FILE=REGISTRY ABB=ON	PLU=ON	BOTULINUM TOXIN? /CN
L5	14	SEA FILE=REGISTRY ABB=ON	PLU=ON	BOTULINUM NEUROTOXIN? /CN
L6	134	SEA FILE=REGISTRY ABB=ON	PLU=ON	(BOTULIN A ? OR BOTULIN B ? OR BOTULIN C1 ? OR BOTULIN C2 ? OR BOTULIN D ? OR BOTULIN E ? OR BOTULIN F ?)/CN
L7	2	SEA FILE=REGISTRY ABB=ON	PLU=ON	(BOTULINUM A ? OR BOTULINUM B ? OR BOTULINUM C1 ? OR BOTULINUM C2 ? OR BOTULINUM D ? OR BOTULINUM E ? OR BOTULINUM F ?)/CN
L8	156	SEA FILE=REGISTRY ABB=ON	PLU=ON	L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7
L9	9	SEA FILE=REGISTRY ABB=ON	PLU=ON	(PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN OR "PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)/CN OR "PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR "PHOSPHATE (P4O123-)/CN) OR "PHOSPHATE (P6O186-)/CN OR ("PHOSPHATE (PO3-)/CN OR "PHOSPHATE (PO31-)/CN OR "PHOSPHATE (PO32-)/CN) OR "PHOSPHATE (PO43-)/CN OR "PHOSPHATE (PO4H2-)/CN
L10	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	CITRATE/CN
L11	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	ACETATE/CN
L12	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	SUCCINATE/CN
L13	12	SEA FILE=REGISTRY ABB=ON	PLU=ON	L9 OR L10 OR L11 OR L12
L15	6	SEA FILE=REGISTRY ABB=ON	PLU=ON	(BOTULIN G ? OR BOTULINUM G ?)/CN
L16	161	SEA FILE=REGISTRY ABB=ON	PLU=ON	L8 OR L15
L18	1354347	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L13 OR PHOSPHATE OR CITRATE OR ACETATE OR SUCCINATE OR SUCCINIC OR BUTANEDIOIC OR ACETIC
L21	3	SEA FILE=REGISTRY ABB=ON	PLU=ON	HUMAN SERUM ALBUMIN ?/CN
L22	62	SEA FILE=REGISTRY ABB=ON	PLU=ON	SERUM ALBUMIN ?/CN
L23	1	SEA FILE=REGISTRY ABB=ON	PLU=ON	GELATINS/CN
L24	66	SEA FILE=REGISTRY ABB=ON	PLU=ON	L21 OR L22 OR L23
L27	6302	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L16 OR (BO OR BOTULIN?) (5A) (NT OR TOXIN OR NEUROTOXIN OR TOX#) OR BOTOX# OR BONT# OR BOTX# OR BTX# OR (BT OR BN OR BNT#) (S) BOTULIN? OR BOTULIN? (3A) (A OR B OR C1 OR C2 OR D OR E OR F OR G)
L28	290	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L27 AND L18
L29	66	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L28 AND (14) OR NACL OR (NA OR SODIUM) (W) (CL OR CHLORIDE) OR SALINE)
L30	8	SEA FILE=HCAPLUS ABB=ON	PLU=ON	L29 AND (L24 OR HSA OR ALBUMIN OR GELATIN)
L31	0	L30 NOT L26		

should read "L14"
See L58-L65

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L32 16 S L30
L33 11 DUP REM L32 (5 DUPLICATES REMOVED)

L33 ANSWER 1 OF 11 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
ACCESSION NUMBER: 2005-151958 [16] WPIDS
DOC. NO. CPI: C2005-049081
TITLE: New benzodiazepine derivatives are calcitonin
gene-related peptide receptor antagonists useful in
treatment of e.g. migraine, headache, tooth pain,
inflammatory bowel disease and arthritis.
DERWENT CLASS: B02 B05
INVENTOR(S): BURGEY, C S; STUMP, C A; WILLIAMS, T M
PATENT ASSIGNEE(S): (MERI) MERCK & CO INC
COUNTRY COUNT: 108
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2005000807	A2	20050106	(200516)*	EN	86
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT					

KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG
 ZM ZW
 W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ
 DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP
 KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA
 NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR
 TT TZ UA UG US UZ VC VN YU ZA ZM ZW

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2005000807	A2	WO 2004-US20206	20040624

PRIORITY APPLN. INFO: US 2003-482674P 20030626

AN 2005-151958 [16] WPIDS

AB WO2005000807 A UPAB: 20050308

NOVELTY - A benzodiazepine derivative or its salt or individual diastereomer is new.

DETAILED DESCRIPTION - A benzodiazepine derivative of formula (I) or its salt or individual diastereomer is new;

R1 = 1-6C alkyl, 2-6C alkenyl, 2-6C alkynyl, 3-6C cycloalkyl, heterocycle, (hetero)aryl (all optionally substituted by at least one T) or H;

T = (hetero)aryl, heterocycle (both optionally mono- - penta-substituted by R4), 1-6C alkyl, 3-6C cycloalkyl, (F)p-1-3C alkyl, halo, OR4, O(CH2)sOR4, CO2R4, CONR10R11, O(CO)NR10R11, N(R4)CONR10R11, N(R10)(CO)R11, N(R10)(CO)OR11, SO2NR10R11, N(R10)SO2R11, S(O)mR10, CN, NR10R11, N(R10)(CO)NR4R11 or O(CO)R4;

R2 and R6 = T or H;

R7 = 0-6C alkyl, 2-6C alkenyl, 2-6C alkynyl, 3-6C cycloalkyl, heterocycle, (hetero)aryl (all optionally substituted by at least one T) or H;

R4, R10 and R11 = 1-6C alkyl, (F)p-1-6C alkyl, 3-6C cycloalkyl, (hetero)aryl, benzyl (all optionally substituted by halo, OH or 1-6C alkoxy) or H;

R5 = H, optionally substituted 1-6C alkyl, 3-6C cycloalkyl, (hetero)aryl, OR4, N(R4)2, CO2R4 or (F)p-1-6C alkyl;

W' = O, NR4 or C(R4)2;

X = C or S;

Y = O, (R4)2, NCN, NSO2CH3 or NCONH2;

R3 = H, optionally substituted 1-3C alkyl, CN or CO2R4;

R10+R11 = azetidiny, pyrrolidinyl, piperidinyl, piperazinyl or morpholinyl (all optionally mono - penta-substituted by R4);

G-J = N, N-C(R5)2, C=C(R5), C=N, C(R5), C(R5)-C(R5)2, C(R5)-C(R5)2-C(R5)2, C=C(R5)-C(R5)2, C(R5)-C(R5)=C(R5), C(R5)-C(R5)2-N(R5), C=C(R5)-N(R5), C(R5)-C(R5)=N, C(R5)-N(R5)-C(R5)2, C=N-C(R5)2, C(R5)-N=C(R5), C(R5)-N(R5)-N(R5), C=N-N(R5), N-C(R5)2-C(R5)2, N-C(R5)=C(R5), N-C(R5)2-N(R5), N-C(R5)=N, N-N(R5)-C(R5)2 or N-N=C(R5);

p = 0 - 2q+1 (for substituent with q carbons);

m = 0 - 2;

n = 0 or 1;

s = 1 - 3.

Provided that when X is S, Y is O2.

An INDEPENDENT CLAIM is included for treating or preventing migraine headache, cluster headache and headache involving co-administering (I) or its salt and a second agent (A) selected from

serotonin agonist, analgesic, anti-inflammatory agent, anti-hypertensive and anticonvulsants; a second agent (B) selected from anti-anxiety agents and neuroleptics; a second agent (C) selected from beta-blockers and calcium channel blockers; a second agent (D) selected from antidepressants, selective serotonin reuptake inhibitor and NE uptake inhibitor; a second agent selected from

botulinum toxin A or B; a second

agent (E) selected from vanilloid receptor antagonists, adenosine 1 antagonists, NR2B antagonists, substance P antagonists, granzyme B inhibitors, endothelin antagonists, norepinephrin precursors, nitric oxide synthase inhibitors, neuroleptics, bradykinin antagonists, gap junction inhibitors, AMPA/KA antagonists, sigma receptor agonists, chloride channel enhancers, monoamine oxidase inhibitors, opioid agonists, and leukotriene receptor antagonists; or a second agent (F) selected from anti-emetics, prokinetics and histamine H1 antagonist.

ACTIVITY - Antimigraine; Analgesic; Antiinflammatory; Antidiabetic; Antiasthmatic; Antiarthritic; Antiallergic; Dermatological; Neuroprotective; Gastrointestinal-Gen.; Antipsoriatic; Vasotropic; Immunosuppressive; Antibacterial; Gynecological; Tranquilizer; Vulnerary; Anticonvulsant.

MECHANISM OF ACTION - Calcitonin Gene-related peptide (CGRP) receptor antagonist. N-((3R)-1-Ethyl-2-oxo-5-phenyl-2,3-dihydro-1H-1,4-benzodiazepin-3-yl)-4-(2-oxo-1,4-dihydroquinazolin-3(2H)-yl)piperidine-1-carboxamide (A1) was tested for CGRP receptor antagonistic activity using recombinant receptor functional assay. Cells were plated in complete growth medium at 85000 cells/well in 96-well poly-D-lysine coated plates and cultured for -19 hours. Cells were washed with **phosphate buffered saline (PBS)** and then incubated with (A1) for 30 minutes at 37 deg. C and 95% humidity in Cellgro Complete Serum-Free/Low Protein medium with L-glutamine and bovine serum **albumin** (1 g/l). Human alpha-CGRP was added to the cells at 0.3 nM and incubated at 37 deg. C for 5 minutes. After alpha-CGRP stimulation, the cells were washed with PBS and processed for cAMP determination according to manufacturer's recommended protocol. (A1) Showed IC50 of less than 50 micro M.

USE - For antagonizing CGRP receptor activity in a mammal; in the treatment, control, amelioration or reduction of risk of e.g. headache, migraine, cluster headache (claimed), chronic tension type headache, pain, chronic pain, neurogenic inflammation and inflammatory pain, neuropathic pain, tooth pain, diabetes, non-insulin dependent diabetes mellitus, vascular disorder, inflammation, arthritis, bronchial hyper reactivity, asthma, shock, sepsis, opiate withdrawal syndrome, morphine tolerance, hot flushes, allergic dermatitis, psoriasis, encephalitis, brain trauma, epilepsy, neurodegenerative disease, skin disease, neurogenic cutaneous redness, skin rosaceousness and erythema, inflammatory bowel disease, irritable bowel disease and cystitis.

ADVANTAGE - The compound is potent calcitonin gene-related peptide receptor antagonist and treats CGRP receptor related disease with minimal side effects.

Dwg.0/0

L33	ANSWER 2 OF 11	MEDLINE on STN	DUPLICATE 1
ACCESSION NUMBER:	2005272780	MEDLINE	
DOCUMENT NUMBER:	PubMed ID: 15869543		
TITLE:	Pilot study of the safety and efficacy of Myobloc (botulinum toxin type B) for treatment of axillary hyperhidrosis.		
AUTHOR:	Baumann Leslie; Slezinger Anele; Halem Monica; Vujevich		

Searcher : Shears 571-272-2528

CORPORATE SOURCE: Justin; Martin Lucy K; Black Laura; Bryde Joy
 Department of Dermatology and Cutaneous Surgery,
 Division of Cosmetic Dermatology, University of Miami
 School of Medicine, 1295 NW 14th Street, South Building
 Suite K., Miami, FL 33125, USA.. lsb@derm.net

SOURCE: International journal of dermatology, (2005 May) 44 (5)
 418-24.
 Journal code: 0243704. ISSN: 0011-9059.

PUB. COUNTRY: United States

DOCUMENT TYPE: (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200508

ENTRY DATE: Entered STN: 20050527
 Last Updated on STN: 20050803
 Entered Medline: 20050802

AB BACKGROUND: **Botulinum toxin type B** (**BTX-B**, Myobloc, San Francisco, CA, USA) was FDA-approved for the treatment of cervical dystonia in December 2000. It has since been used off-label for the treatment of axillary hyperhidrosis. However, there are sparse data in the medical literature evaluating the safety and efficacy of Myobloc (**botulinum toxin type B**) for this indication. OBJECTIVE: To assess the safety, efficacy and duration of action of Myobloc (**botulinum toxin type B**) in the treatment of bilateral axillary hyperhidrosis. METHODS: This study was a double-blinded, randomized, pilot study conducted in an outpatient office setting at a private academic medical center beginning in November 2001. Twenty-three male and female volunteers between the ages of 18 and 80 were screened for participation; 20 participants with primary axillary hyperhidrosis were enrolled. Participants were injected subcutaneously with either Myobloc (**botulinum toxin type B**) (2500 U, or 0.5 ml, per axilla) or 0.5 ml vehicle (100 mM **NaCl**, 10 mM **succinate**, and 0.5 mg/ml human **albumin**) into bilateral axillae. Participants who received placebo were rolled over and received Myobloc (**botulinum toxin type B**) at subsequent visits. All participants were followed until sweating returned to baseline levels. This trial was initially conceived as a placebo-controlled study; however, owing to the insufficient size of the placebo group, the placebo arm of this trial was dropped during data analysis. The main outcome measures were safety, efficacy, and duration of effect. RESULTS: According to participant assessment of axillary hyperhidrosis improvement (A-HI) and quality of life (A-HQOL) scores and the physician assessment scores, a significant difference was observed in treatment response at Day 30 in the participants receiving Myobloc (**botulinum toxin type B**) injections. Duration of action ranged from 2.2 to 8.1 months (mean 5.0 months). The adverse event profile included bruising, flu-like symptoms, and dry eyes. CONCLUSION: Myobloc (**botulinum toxin type B**) proved to be safe and efficacious for the treatment of bilateral axillary hyperhidrosis. More studies are needed to assess the duration of response using different doses of Myobloc (**botulinum toxin type B**).

L33 ANSWER 3 OF 11 MEDLINE on STN
 ACCESSION NUMBER: 2005207480 MEDLINE

DUPLICATE 2

Searcher : Shears 571-272-2528

DOCUMENT NUMBER: PubMed ID: 15841624
 TITLE: Double-blind, randomized, placebo-controlled pilot study of the safety and efficacy of Myobloc (**botulinum toxin type B**) for the treatment of palmar hyperhidrosis.
 COMMENT: Comment in: Dermatol Surg. 2005 Sep;31(9 Pt 1):1158. PubMed ID: 16164873
 AUTHOR: Baumann Leslie; Slezinger Anele; Halem Monica; Vujevich Justin; Mallin Karin; Charles Carlos; Martin Lucy K; Black Laura; Bryde Joy
 CORPORATE SOURCE: Department of Dermatology and Cutaneous Surgery/Division of Cosmetic Dermatology, University of Miami, Miami, Florida, USA.. lsb@derm.net
 SOURCE: Dermatologic surgery : official publication for American Society for Dermatologic Surgery [et al.], (2005 Mar) 31 (3) 263-70. Journal code: 9504371. ISSN: 1076-0512.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: (CLINICAL TRIAL)
 Journal; Article; (JOURNAL ARTICLE)
 (RANDOMIZED CONTROLLED TRIAL)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200505
 ENTRY DATE: Entered STN: 20050422
 Last Updated on STN: 20050513
 Entered Medline: 20050512

AB BACKGROUND: Palmar hyperhidrosis is a problem of unknown etiology that affects patients both socially and professionally. **Botulinum toxin type B** (Myobloc), approved by the Food and Drug Administration for use in the treatment of cervical dystonia in the United States in December 2000, has subsequently been used effectively in an off-label indication to treat hyperhidrosis. There are sparse data, however, in the literature evaluating the safety and efficacy of **BTX-B** for the treatment of palmar hyperhidrosis. OBJECTIVE: We evaluated the safety and efficacy of Myobloc in the treatment of bilateral palmar hyperhidrosis. This was a double-blind, randomized, placebo-controlled study to report on the safety and efficacy of Myobloc. METHODS: Twenty participants (10 men, 10 women) diagnosed with palmar hyperhidrosis were injected with either Myobloc (5,000 U per palm) or a 1.0 mL vehicle (100 mM NaCl, 10 mM **succinate**, and 0.5 mg/mL human **albumin**) into bilateral palms (15 Myobloc, 5 placebo). The participants were followed until sweating returned to baseline levels. The main outcome measures were safety, efficacy versus placebo, and duration of effect. RESULTS: A significant difference was found in treatment response at day 30, as determined by participant assessments, between 15 participants injected with Myobloc and 3 participants injected with placebo. The duration of action, calculated in the 17 participants who received Myobloc injections and completed the study, ranged from 2.3 to 4.9 months, with a mean duration of 3.8 months. The single most reported adverse event was dry mouth or throat, which was reported by 18 of 20 participants. The adverse event profile also included indigestion or heartburn (60%), excessively dry hands (60%), muscle weakness (60%), and decreased grip strength (50%). CONCLUSION: Myobloc proved to be efficacious for the treatment of palmar hyperhidrosis. Myobloc had a rapid onset, with most participants responding within 1 week. The duration of action ranged from 2.3 to 4.9 months, with a mean of 3.8 months. The adverse event profile

included dry mouth, indigestion or heartburn, excessively dry hands, muscle weakness, and decreased grip strength.

L33 ANSWER 4 OF 11 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:288014 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA14001008814Y
 TITLE: Pharmaceutical preparation of **botulinum neurotoxin**
 AUTHOR(S): Zabudkin, Alexander F.; Krasnopol'sky, Juri M.; Itkin, Aleksandr M.; Itkin, Dmitry M.
 PATENT INFORMATION: US 2003224020 A1 4 Dec 2003
 SOURCE: (2003) U.S. Pat. Appl. Publ., 8 pp.
 CODEN: USXXCO.
 COUNTRY: UKRAINE
 DOCUMENT TYPE: Patent
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 2003:950462
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20031209
 Last Updated on STN: 20050524

AB A pharmaceutical preparation of **botulinum neurotoxins** free of human blood products (such as human albumin), the preparation comprising a **botulinum neurotoxin** incorporated in phosphatidylcholine liposomes. A flask is filled with a solution of phosphatidylcholine in ethanol containing 0.1 g lipid. The solution is subjected to evaporation at 35° until a lipid film is formed. The lipid film is then resuspended in 10-L sterile 0.9% **sodium chloride** solution with 7.0-7.4 **phosphate** buffer containing 1 mg of **botulinum** type A **neurotoxin** complex (95-98% purity). After the lipid film is successfully resuspended from the flask walls, the resulting emulsion is thoroughly mixed for 30 min until homogeneous emulsion is produced. Such emulsion is then transferred into a homogenizing reactor and the emulsion is homogenized at a pressure of 60 MPa and a temperature of 30-35°. When an optical d. of 0.1-0.12 is achieved, 25 g lactose is added to the emulsion. The resulting emulsion is then sequentially filtered. The resulting sterile emulsion is then distributed into vials or ampuls, each containing 0.1 mL sterile emulsion. The vials or ampuls are deep frozen at -70° for 48 h, followed by lyophilization. After lyophilization, the vials are hermetically sealed with an atmospheric of inert gas introduced over the lyophilized emulsion in the vial.

L33 ANSWER 5 OF 11 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2002-164340 [21] WPIDS
 DOC. NO. CPI: C2002-050729
 TITLE: Immunoconjugate for increasing anti-tumor activity of immunotoxin, has a connector molecule attaching a targeting molecule to an effector molecule, conjugated to one or more polyethylene glycol molecules.
 DERWENT CLASS: A96 B04 D16
 INVENTOR(S): LEE, B; NAGATA, S; ONDA, M; PASTAN, I H; TSUTSUMI, Y; PASTAN, H; KREITMAN, R J; PASTAN, I
 PATENT ASSIGNEE(S): (KREI-I) KREITMAN R J; (USSH) US DEPT HEALTH & HUMAN SERVICES; (LEEB-I) LEE B; (NAGA-I) NAGATA S; (ONDA-I) ONDA M; (PAST-I) PASTAN I; (TSUT-I) TSUTSUMI Y
 COUNTRY COUNT: 97

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2001095942	A2	20011220	(200221)*	EN	58
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW					
MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE					
DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG					
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL					
PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA					
ZW					
AU 2001069762	A	20011224	(200227)		
EP 1351709	A2	20031015	(200368)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
JP 2004503512	W	20040205	(200412)		105
US 2004018203	A1	20040129	(200413)		
EP 1351709	B1	20040915	(200460)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
DE 60105647	E	20041021	(200469)		
EP 1351709	B8	20041222	(200501)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR					
ES 2228903	T3	20050416	(200528)		
AU 2001269762	B2	20050623	(200545)		
DE 60105647	T2	20050922	(200562)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2001095942	A2	WO 2001-US18503	20010608
AU 2001069762	A	AU 2001-69762	20010608
EP 1351709	A2	EP 2001-948294	20010608
		WO 2001-US18503	20010608
JP 2004503512	W	WO 2001-US18503	20010608
		JP 2002-510119	20010608
US 2004018203	A1	WO 2001-US18503	20010608
		US 2002-297337	20021204
EP 1351709	B1	EP 2001-948294	20010608
		WO 2001-US18503	20010608
DE 60105647	E	DE 2001-00105647	20010608
		EP 2001-948294	20010608
		WO 2001-US18503	20010608
EP 1351709	B8	EP 2001-948294	20010608
		WO 2001-US18503	20010608
ES 2228903	T3	EP 2001-948294	20010608
AU 2001269762	B2	AU 2001-269762	20010608
DE 60105647	T2	DE 2001-00105647	20010608
		EP 2001-948294	20010608
		WO 2001-US18503	20010608

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2001069762	A Based on	WO 2001095942
EP 1351709	A2 Based on	WO 2001095942
JP 2004503512	W Based on	WO 2001095942
EP 1351709	B1 Based on	WO 2001095942

DE 60105647	E Based on	EP 1351709
	Based on	WO 2001095942
EP 1351709	B8 Based on	WO 2001095942
ES 2228903	T3 Based on	EP 1351709
AU 2001269762	B2 Previous Publ.	AU 2001269762
	Based on	WO 2001095942
DE 60105647	T2 Based on	EP 1351709
	Based on	WO 2001095942

PRIORITY APPLN. INFO: US 2000-213804P 20000622; US
 2000-211331P 20000609; US
 2002-297337 20021204

AN 2002-164340 [21] WPIDS

AB WO 200195942 A UPAB: 20020403

NOVELTY - A composition (I) comprising a targeting molecule linked to an effector molecule through a connector molecule, and one or more polyethylene glycol (PEG) molecules conjugated to the connector molecule, is new.

ACTIVITY - Cytostatic.

To assess antitumor activity, ATac-4 cells were inoculated subcutaneously in nude mice on day 0. Treatment was started on day 4 when the tumors measured about 100 mm³. Animals were treated intravenously with 3 doses given on days 4, 6 and 8. The control groups received vehicle (**phosphate buffered saline** (PBS) containing 0.2 % bovine serum **albumin** (BSA)) or 10 micro g of PEG5K or PEG20K. Native and mutant anti-Tac(Fv)-PE38 (LMB-2) inhibited tumor growth in a dose-dependent manner. Complete regressions, which were defined as disappearance of tumor without regrowth after more than 50 days, were observed in 2 of 5 mice or 1 of 5 mice at the dose of 0.1 mg/kg multiply 3 of native or mutant LMB-2, respectively. At 0.2 mg/kg multiply 3 dose level one of 5 mice administered either native or mutant LMB-2 died from toxicity during the therapeutic period, but complete regressions were observed in all four remaining mice. The antitumor activities of both types of PEGylated LMB-2s were markedly improved. Complete regression was observed in 1 of 5 mice or 2 of 5 mice at the dose of 0.025 mg/kg multiply 3 of PEG5K- or PEG20K-LMB-2, respectively. At the dose of 0.05 mg/kg multiply 3, PEGylated LMB-2s caused complete regressions lasting over 50 days. Both types of PEGylated LMB-2 showed a 3-4-fold higher anti-tumor activity than unmodified native and mutant LMB-2. In addition, their toxicity to mice was reduced about 6-fold. PEGylation led to a 20-fold increase in therapeutic efficacy, increased LMB-2 blood-residence, which was due to an increase in molecular size and enhanced stability. The plasma half-lives were 5-fold longer with PEG5K-LMB-2 and 8-fold longer with PEG20K-LMB-2 than with unmodified LMB-2s.

MECHANISM OF ACTION - Inhibits or kills growth of target cells.

USE - (I) having a targeting moiety and a toxin moiety connected by a connector molecule, where two or more amino acid residues of the connector molecule are conjugated to PEG, is useful for increasing anti-tumor activity of an immunotoxin (claimed). The immunotoxins selectively inhibit or kill cells to which the immunotoxins are targeted by the targeting moiety. They kill or inhibit the growth of cells of CD25+ hematologic malignancies, including e.g. hairy cell leukemia (HCL), cutaneous T-cell lymphoma, chronic lymphocytic leukemia, Hodgkin's disease and adult T-cell leukemia and in vivo inhibit the growth of malignant cells in an organism.

ADVANTAGE - The PEGylated immunotoxin has comparable in vitro specific cytotoxicity against tumor cells, and improved stability,

plasma half-life, antitumor activity, immunogenicity and non-specific toxicity. The PEGylation of the linker or connector portion of an immunotoxin increases the anti-tumor activity of the immunotoxin, while decreasing its toxicity and immunogenicity.
Dwg.0/6

L33 ANSWER 6 OF 11 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
DUPLICATE 3

ACCESSION NUMBER: 2000-271251 [23] WPIDS
DOC. NO. CPI: C2000-082761
TITLE: Stable liquid pharmaceutical **botulinum**
toxin formulation, useful for treating
spasticity due to stroke, spinal cord injury, closed
head trauma, cerebral palsy, multiple sclerosis, or
Parkinson's disease.
DERWENT CLASS: B04
INVENTOR(S): HIRTZER, P; MOYER, E
PATENT ASSIGNEE(S): (ELAN-N) ELAN PHARM INC
COUNTRY COUNT: 85
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2000015245	A2	20000323	(200023)*	EN	34
RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI					
GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS					
LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL					
TJ TM TR TT UA UG US UZ VN YU ZA ZW					
AU 9958214	A	20000403	(200034)		
NO 2001001207	A	20010509	(200134)		
BR 9913585	A	20010605	(200138)		
CZ 2001000564	A3	20010613	(200138)		
EP 1112082	A2	20010704	(200138)	EN	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL					
PT RO SE SI					
SK 2001000313	A3	20011008	(200163)		
CN 1316906	A	20011010	(200207)		
KR 2001086388	A	20010910	(200219)		
HU 2001003638	A2	20020128	(200222)		
EP 1112082	B1	20020731	(200257)	EN	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL					
PT RO SE SI					
DE 69902396	E	20020905	(200266)		
JP 2002524527	W	20020806	(200266)		46
AU 755556	B	20021212	(200305)		
ES 2181473	T3	20030216	(200321)		
ZA 2001001709	A	20030226	(200321)		51
NZ 509349	A	20030829	(200365)		
MX 2001002445	A1	20021001	(200370)		
TW 574036	A	20040201	(200453)		
IN 2001000165	P2	20050311	(200555)	EN	

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000015245	A2	WO 1999-US20912	19990909
AU 9958214	A	AU 1999-58214	19990909

Searcher : Shears 571-272-2528

09/393590

NO 2001001207	A	WO 1999-US20912	19990909
BR 9913585	A	NO 2001-1207	20010309
CZ 2001000564	A3	BR 1999-13585	19990909
EP 1112082	A2	WO 1999-US20912	19990909
SK 2001000313	A3	WO 1999-US20912	19990909
CN 1316906	A	CZ 2001-564	19990909
KR 2001086388	A	EP 1999-945649	19990909
HU 2001003638	A2	WO 1999-US20912	19990909
EP 1112082	B1	WO 1999-US20912	19990909
DE 69902396	E	SK 2001-313	19990909
JP 2002524527	W	CN 1999-810739	19990909
AU 755556	B	KR 2001-703032	20010309
ES 2181473	T3	WO 1999-US20912	19990909
ZA 2001001709	A	HU 2001-3638	19990909
NZ 509349	A	EP 1999-945649	19990909
MX 2001002445	A1	WO 1999-US20912	19990909
TW 574036	A	DE 1999-602396	19990909
IN 2001000165	P2	EP 1999-945649	19990909
		WO 1999-US20912	19990909
		WO 1999-US20912	19990909
		JP 2000-569829	19990909
		AU 1999-58214	19990909
		EP 1999-945649	19990909
		ZA 2001-1709	20010228
		NZ 1999-509349	19990909
		WO 1999-US20912	19990909
		WO 1999-US20912	19990909
		MX 2001-2445	20010308
		TW 1999-114941	19990831
		WO 1999-US20912	19990909
		IN 2001-KN165	20010313

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9958214	A Based on	WO 2000015245
BR 9913585	A Based on	WO 2000015245
CZ 2001000564	A3 Based on	WO 2000015245
EP 1112082	A2 Based on	WO 2000015245
SK 2001000313	A3 Based on	WO 2000015245
HU 2001003638	A2 Based on	WO 2000015245
EP 1112082	B1 Based on	WO 2000015245
DE 69902396	E Based on	EP 1112082
	Based on	WO 2000015245
JP 2002524527	W Based on	WO 2000015245
AU 755556	B Previous Publ.	AU 9958214
	Based on	WO 2000015245
ES 2181473	T3 Based on	EP 1112082
NZ 509349	A Based on	WO 2000015245
MX 2001002445	A1 Based on	WO 2000015245

PRIORITY APPLN. INFO: US 1998-99870P 19980911

AN 2000-271251 [23] WPIDS

AB WO 200015245 A UPAB: 20000516

NOVELTY - **A** stable liquid pharmaceutical **botulinum toxin** formulation (I), comprising a buffer giving a pH range of 5 to 6 and isolated **botulinum toxin**, stable at a temperature of 0 to 30 deg. C for at least 1 year, is new.

Searcher : Shears 571-272-2528

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a method of treating a patient requiring inhibition of cholinergic input to a muscle, gland, or organ comprising administering (I).

ACTIVITY - Relaxant; cerebroprotective; neuroprotective; antiparkinsonian; analgesic; antimigraine; antiasthmatic.

Twenty-eight patients with a mean age of 50.9 with a confirmed diagnosis of cervical dystonia, received injections of **botulinum toxin Type B** formulation into 2-4 superficial neck and shoulder muscles with escalating doses (up to 1.5 fold per successive session) over time. Clinical benefit was assessed using the Toronto Western Spasmodic Torticollis Rating Scale (TWSTRS)-Severity test, with 25% reduction in score considered an improvement. Patients participated in the study from 28 to 177 days with a mean time in the study of 71.9 days. Patients were treated with 1 to 3 doses of formulation. Cumulative doses ranged from 1430 U to 12000 U, with individual doses ranging from 300 U to 12000 U. For purposes of clinical assessment, 4 dose groups were defined: 100-800 U (Group A), 900-2399 U (Group B), 2400-5999 U (Group C), and 6000-12000 U (Group D). The length of time between dosing sessions ranged as follows: Group A, 13-101 days; Group B, 14-113 days; Group C, 29-177 days; and Group D, 28-177 days. Mean baseline scores were similar in all patients in all treatment groups, and all 4 groups experienced a mean decrease in score (improvement) during the study. Overall, mean percent improvement from baseline and mean response ratio for severity score was greatest in Groups C and D during the study. Measures of mean maximum improvement, mean maximum percent improvement and mean maximum response ratio were greater for the two higher dose groups (8.1 and 6.8 against 2.1 and 3.6 for maximum improvement). The percentage of patients responding to treatment was greater for the two higher dose groups (80 and 78% for C and D, respectively compared to 0 and 27% for A and B, respectively). The results therefore showed a dose-dependent response to **botulinum B toxin** formulations.

MECHANISM OF ACTION - (I) inhibits cholinergic input into muscles, glands and organs.

USE - The composition is useful for treating spasticity (due to stroke, spinal cord injury, closed head trauma, cerebral palsy, multiple sclerosis, or Parkinson's), blepharospasm, strabismus, hemifacial spasm, dystonia, otitis media, spastic colitis, anismus, urinary detrusor-sphincter dyssynergia, jaw-clenching, and curvature of the spine. (I) is also useful for treatment of myofascial pain, headache associated with migraine, vascular disturbances, neuralgia, neuropathy, arthrotos pain, back pain, hyperhydrosis, rhinorrhea, asthma, excessive salivation, and excessive stomach acid secretion.
Dwg.0/0

L33 ANSWER 7 OF 11 EMBASE COPYRIGHT (c) 2005 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2000272711 EMBASE

TITLE: **Botox** and dysport are distinct (multiple letters).

AUTHOR: Madalinski M.; Thumshirn M.

CORPORATE SOURCE: M. Madalinski, ul. Kosciuszki 101-7, 80-421 Gdansk, Poland. m.h.madalinski@pro.onet.pl

SOURCE: Endoscopy, (2000) Vol. 32, No. 6, pp. 502-503.

Refs: 0

ISSN: 0013-726X CODEN: ENDCAM

COUNTRY: Germany

DOCUMENT TYPE: Journal; Letter

Searcher : Shears 571-272-2528

09/393590

FILE SEGMENT: 030 Pharmacology
037 Drug Literature Index
038 Adverse Reactions Titles
039 Pharmacy
048 Gastroenterology

LANGUAGE: English

ENTRY DATE: Entered STN: 20000817

Last Updated on STN: 20000817

DATA NOT AVAILABLE FOR THIS ACCESSION NUMBER

L33 ANSWER 8 OF 11 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:185698 TOXCENTER

COPYRIGHT: Copyright 2005 ACS

DOCUMENT NUMBER: CA12123274169N

TITLE: Recovery of type **A botulinal toxin** following lyophilization

AUTHOR(S): Goodnough, Michael C.; Johnson, Eric A.

CORPORATE SOURCE: Food Res. Inst., Univ. Wisconsin, Madison, WI, 53706, USA.

SOURCE: ACS Symposium Series, (1994) Vol. 567, No. Formulation and Delivery of Proteins and Peptides, pp. 193-203.
CODEN: ACSMC8. ISSN: 0097-6156.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Journal

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 1994:674169

LANGUAGE: English

ENTRY DATE: Entered STN: 20011116

Last Updated on STN: 20020910

AB Type **A botulinum toxin** is diluted to very low concns. (ng/mL) for medical use and preserved by lyophilization in a mixture of human serum **albumin** and **sodium chloride** at a slightly alkaline pH. This com. process results in considerable loss of activity. In this study, conditions were found that gave >90% recovery of the toxicity following lyophilization of solns. containing 20-1000 mouse 50% LDs (1-50 ng of toxin complex). Full recovery of starting toxicity was obtained upon drying 0.1 mL when the pH was maintained below 7.0 and serum **albumins** or other protein excipients were used as stabilizers without **sodium chloride**. Possible mechanisms of toxin inactivation were examined and may include aggregation, deamidation, and peptide bond hydrolysis.

L33 ANSWER 9 OF 11 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:172428 TOXCENTER

COPYRIGHT: Copyright 2005 ACS

DOCUMENT NUMBER: CA11724239677X

TITLE: Stabilization of **botulinum toxin** type **A** during lyophilization

AUTHOR(S): Goodnough, Michael C.; Johnson, Eric A.

CORPORATE SOURCE: Dep. Food Microbiol. Toxicol., Univ. Wisconsin, Madison, WI, 53706, USA.

SOURCE: Applied and Environmental Microbiology, (1992) Vol. 58, No. 10, pp. 3426-8.
CODEN: AEMIDF. ISSN: 0099-2240.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Journal

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 1992:639677

Searcher : Shears 571-272-2528

LANGUAGE: English
ENTRY DATE: Entered STN: 20011116
Last Updated on STN: 20021001

AB **Botulinum toxin** for medical use is diluted to very low concns. (nanograms per mL); when it is preserved by lyophilization, considerable loss of activity can occur. In the present study, conditions that gave >90% recovery of the toxicity after lyophilization of solns. containing 20 to 1000 mouse 50% LDs per mL were found. Toxicity was recovered upon drying 0.1 mL of toxin solution when the pH was maintained below 7 and bovine or human serum **albumins** were used as stabilizers. Various other substances tested with **albumin**, including glucose, sucrose, trehalose, mannitol, glycine, and cellobiose, did not increase recovery on drying.

L33 ANSWER 10 OF 11 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1966:34791 TOXCENTER
COPYRIGHT: Copyright 2005 ACS
DOCUMENT NUMBER: CA06413107065Y
TITLE: The effect of temperature on toxin formation and **toxin** stability of *Clostridium botulinum* type **E** in different environments

AUTHOR(S): Abrahamsson, Kerstin; Gullmar, B.; Molin, N.
CORPORATE SOURCE: Swedish Inst. Food Preserv. Res., Goteborg.
SOURCE: Canadian Journal of Microbiology, (1966) Vol. 12, No. 2, pp. 385-94.
CODEN: CJMIAZ. ISSN: 0008-4166.

DOCUMENT TYPE: Journal
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 1966:107065
LANGUAGE: English
ENTRY DATE: Entered STN: 20011116
Last Updated on STN: 20030513

AB *C. botulinum* type **E** produced **toxin** at temps. between 3° and 30° in a chopped meat medium and in a fish dialyzate. The toxin was produced more rapidly in the meat medium. No toxin was found after 1 year of incubation at 1°. At 3°, slight toxin production was noticed after 120 days, when the inoculum consisted of a mixture of vegetative cells and spores. The lowest concentration of **NaCl** necessary to inhibit toxin production varied with the incubation temperature and duration of storage. The inhibiting effect of **NaCl** was more pronounced at a lower temperature. Type E spores mixed in fish-meat medium heated for 110 min. at 80° or for 10 min. at 90° produced toxin during prolonged storage at 20° but not after they were heated at 90° for 20 min. Toxin (type E) proved more thermostable in meat broth and fish dialyzate than in **phosphate** buffer solution or in buffer supplemented with **gelatin**. In meat broth, the toxin was inactivated after 5 min. at 65°.

L33 ANSWER 11 OF 11 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1966:29482 TOXCENTER
COPYRIGHT: Copyright 2005 ACS
DOCUMENT NUMBER: CA06401005105U
TITLE: Fractionation of proteins in an aqueous medium
AUTHOR(S): Polson, Alfred
CORPORATE SOURCE: ASSIGNEE: South African Inventions Development Corp.
PATENT INFORMATION: GB 1006258 29 Sep 1965

SOURCE: (1965)
 DOCUMENT TYPE: Patent
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1966:5105
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20040511

AB A process is described for rendering less soluble or less dispersible in an aqueous liquid a proteinaceous substance by addition of a polyethylene glycol (I) of mol. weight 1500-20,000. The process is useful for fractionating and purifying various types of protein. Human plasma was diluted with an equal volume of H₂O, giving a protein concentration of 3.8% by weight. Portions of this soluble (5 ml.) were added to 5-ml. proteins of I (mol. weight 6000) (II) of increasing concentration dissolved in a 1/3M **phosphate** buffer of pH 7.0. The mixts. were kept at 21° for 30 min. then spun at 14,000 rpm. for 15 min. At 3% II concentration, the precipitated fraction was fibrinogen concentrate. At 8% II, the γ -globulin fraction was obtained and between 21 and 26% II, the **albumin** fraction was obtained contaminated with a trace of β -globulin. Fractionation could also be achieved at any particular I concentration by successive lowering of the temperature.

Fractionation was more readily achieved at lower protein concns. and precipitation proceeded more readily at low salt concns. Optimally, protein sepsns. were carried out at protein concns. of 0.4% and 20°, giving fibrinogen at 0-4% II, γ -globulin at 4-8% II, β -globulin at 8-12% II, and α -1 and α -2-globulins and **albumins** at >12% II. At pH 4.6, the γ -globulins could be optionally separated, and at pH 5.8 the β - and γ -globulins. Other proteins separated similarly were derived from *Clostridium novyi* **toxin**, *C. botulinum* **toxin** Type D, and pancreatic deoxyribonuclease. The prepsns. of pure γ -globulin and fibrinogen are also described.

FILE 'HCAPLUS' ENTERED AT 11:59:55 ON 27 OCT 2005

L34 22 S L29 AND BUFFER?
 L35 16 S L29 AND (TEMP OR TEMPERATURE)
 L36 28 S (L34 OR L35) NOT L30

L36 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2005:983609 HCAPLUS
 DOCUMENT NUMBER: 143:272525
 TITLE: Composition and methods for topical application and transdermal delivery of **botulinum toxin**
 INVENTOR(S): Dake, Michael D.; Waugh, Jacob M.
 PATENT ASSIGNEE(S): Essentia Biosystems, Inc., USA
 SOURCE: U.S. Pat. Appl. Publ., 28 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005196414	A1	20050908	US 2005-72026	20050303

AB A composition for topical application of a **botulinum toxin** (including **botulinum toxin** derivs.) comprises a **botulinum toxin** and a carrier comprising a polymeric backbone having attached pos. charged branching groups. The invention also relates to methods for reducing muscle paralysis and other conditions that may be treated with a **botulinum toxin**, particularly paralysis of s.c., and most particularly, facial, muscles, by topically applying an effective amount of the **botulinum toxin** and carrier, in conjunction, to the subject's skin or epithelium. Kits for administration are also described. For example, topical **botulinum toxin** with a peptidyl carrier was prepared. The pos. charged backbone was assembled by conjugating -Gly3Arg7 to polylysine (MW 112,000) via the carboxy of the terminal glycine to free amines of the lysine side chains at a degree of saturation of 18 % (i.e., 18 out of each 100 lysine residues is conjugated to a -Gly3Arg7). An aliquot of **botulinum toxin A** was biotinylated with a calculated 12-fold molar excess of sulfo-NHS-LC biotin. Biotinylated **botulinum toxin A** 2.0 unit per aliquot (i.e. 20 U total) and peptidyl carrier at a calculated MW ratio of 4:1 were mixed to homogeneity and diluted to 600 μ L with **phosphate buffered saline**. The resulting composition was mixed to homogeneity with 5.4 mL of Cetaphil and aliquoted in 200 μ L portions. Topical application of above composition demonstrated that the peptidyl carrier can transport a therapeutically effective amount of **botulinum toxin** across skin without covalent modification of the therapeutic.

Searcher : Shears 571-272-2528

DOCUMENT TYPE: Journal
LANGUAGE: English

AB The light chain of **botulinum neurotoxin** serotype A undergoes autocatalytic fragmentation into two major peptides during purification and storage by both intermol. and intramol. mechanisms. In this study, the authors investigated the effects of **buffers** and salts on this autocatalytic reaction in the presence and absence of zinc chloride. In the presence of zinc chloride, the fragmentation reaction was enhanced in each of **acetate**, MES, HEPES and **phosphate buffers** with maximum occurring in **acetate** when compared to those in the absence of zinc chloride. Adding **sodium chloride** in **phosphate buffer** in the presence of zinc chloride increased the extent of proteolysis. Irresp. of the presence of zinc chloride, adding **sodium chloride** or potassium chloride in **phosphate buffer** elicited an addnl. proteolytic reaction. Higher concns. of sodium **phosphate buffer** enhanced the autocatalytic reaction in the absence of zinc chloride. In contrast, in the presence of zinc chloride, higher concns. of sodium **phosphate** decreased the autocatalytic reaction. Optimum pH of autocatalysis was not affected significantly by the absence or presence of zinc chloride. Like zinc chloride, other chlorides of divalent metals, such as magnesium, cobalt, iron and calcium also enhanced the autocatalytic reaction. Polyols such as ethylene glycol protected the light chain from fragmentation. Exposure of light chain to UV radiation led to enhanced fragmentation. To avoid fragmentation, the protein should be stored frozen in a low concentration **buffer** of neutral or higher pH devoid of any metal. The authors' results provide a choice of **buffers** and salts for isolation, purification and storage of intact **botulinum neurotoxin** serotype A light chain.

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:905843 HCAPLUS

DOCUMENT NUMBER: 141:6042

TITLE: Combined effects of ionizing-irradiation and different environments on *Clostridium botulinum* type E spores

AUTHOR(S): Lim, Y. H.; Hamdy, M. K.; Toledo, R. T.

CORPORATE SOURCE: Department of Food Science and Technology, University of Georgia, Athens, GA, 30602, USA

SOURCE: International Journal of Food Microbiology (2003), 89(2-3), 251-263

CODEN: IJFMDD; ISSN: 0168-1605

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We examined the combined effects of γ -radiation (24 °C) on spores of *Clostridium botulinum*-type Eklund strain suspended in different gas-saturated Na-**phosphate buffers** in the absence or presence of protectors or sensitizers. Response surface methodol. (RSM) was also used to ascertain the effects of radiation on the recovery of spores using a medium containing various levels of NaCl or Na-thioglycolate. The former (<0.5%) decreased viable spore counts, but the latter (0.15%) did not. Irradiation inactivation of

Eklund spores was most effective in air-saturated **buffers** compared to N₂O and N₂ gas. The Na₂-EDTA (0.01 M) was the most efficient radioprotector of spores due to its reactivity toward hydroxy radicals, followed by t-butanol (0.1 M) in NO₂ or N₂-saturated **buffers**, resp. Catalase (10.0 mg ml⁻¹) and dl-cysteine (0.1 mM) sensitized the spores during irradiated N₂O or N₂-saturated **buffers**, and NaCl (0.01 M) only sensitized spores in N₂ environment. Spores frozen at -75°C for 30 days and thawed prior to use were more sensitive to radiation damage compared to freshly prepared spores. Glycerol (15%), in Na-**phosphate buffer** (pH 7.0, 0.06 M), protected Eklund spores and increased the number of spores from 106 to 1011 colony forming unit (CFU) ml⁻¹, and enhanced their radiosensitivities. Seven strains of *C. botulinum* type **E** were screened for plasmids and strain BL764 had two plasmids (15.8 and 46.8 mDa), BL4028 also had two (4.4 and 13.2 mDa), BL4850 contained only one (4.9 mDa), whereas EQA, BL211, Eklund, and Beluga had none. γ-Radiation (10 kGy, absorbed dose) cured the 15.8-mDa plasmid in strain BL764, but its absence yielded no changes in toxigenicity.

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:491426 HCAPLUS
 DOCUMENT NUMBER: 135:43124
 TITLE: Method of immunoenzymic detection of **botulin toxin** and apparatus for the detection
 INVENTOR(S): Trojan, Czeslaw; Kuczek, Marian
 PATENT ASSIGNEE(S): Wyzsza Szkola Oficerska im.Tadeusza Kosciuszki, Pol.
 SOURCE: Pol., 4 pp.
 CODEN: POXXA7
 DOCUMENT TYPE: Patent
 LANGUAGE: Polish
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PL 179790	B1	20001031	PL 1994-305816	19941109
PRIORITY APPLN. INFO.:			PL 1994-305816	19941109

AB A semiquant. field method for the immunoenzymic detection of **botulin toxin** on glass fiber paper Whatman GF/A is described. Anti-botulotoxin antibodies labeled with fluorescein isothiocyanate (FITC) are fixed on the dry paper in a vertical line. The crossing horizontal line made under UV lamp contains similarly FITC-labeled antibodies with **botulin toxin** or toxoid. After drying the paper is saturated with 1% casein. On the prepared paper, a drop of the aqueous extract of the sample is applied, followed by 0.5 mL stabilized anti-botulotoxin antibodies labeled with peroxidase (1 µg/mL in 0.1 M **phosphate buffer** pH 6.5). After soaking of the solns. into the paper and drying, the paper surface is washed with 1% aqueous NaCl with 0.01% cetylpyrimidine HCl detergent in 0.01% **phosphate buffer** pH 6.5. Subsequently a drop of alc. solution of the chromogenic substrate (tetramethylbenzidine chloride or sulfate) and

H2O2 are added. The developed color is visually judged pos. or neg. for the **botulin toxin** presence in the sample examined. A simple box device for the test execution is described.

L36 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:425354 HCAPLUS

DOCUMENT NUMBER: 131:224672

TITLE: Detection of sparse **botulinum toxin A** binding sites using fluorescent latex microspheres

AUTHOR(S): Crosland, Richard D.; Canziani, Gabriela A.

CORPORATE SOURCE: Toxinology Division, United States Army Medical Research Institute of Infectious Diseases, Frederick, MD, 21702, USA

SOURCE: Journal of Histotechnology (1999), 22(2), 113-115
CODEN: JOHIDN; ISSN: 0147-8885

PUBLISHER: National Society for Histotechnology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The most potent toxins known are produced by strains of *Clostridium botulinum*. To paralyze the vertebrate neuromuscular junction, the toxins bind selectively to nerve endings, translocate into the presynaptic terminal, and hydrolyze proteins of the exocytotic apparatus, thus inhibiting the release of acetylcholine. Our goal was to develop a convenient, reliable technique to detect specific binding of **botulinum toxin A** to its targets, a technique that could be easily modified to detect the binding sites of other ligands as well. Our method utilized fluorescent latex microspheres and is theor. capable of detecting a single binding site at the light microscopic level. Nonspecific binding sites on 7- μ m thick sections of unfixed, cryosectioned mouse diaphragm were first blocked with 20% goat serum in **phosphate-buffered saline** (GS/PBS). We incubated the diaphragm for 1 h at 22° with various concns. of **botulinum toxin A** in GS/PBS, followed by incubation with rabbit anti-**botulinum toxin A** antiserum, biotin-labeled goat anti-rabbit antibody, and finally avidin-labeled, 0.03 μ m diameter, fluorescent latex microspheres. As expected, binding was localized to the area of the neuromuscular junction. Binding was also observed in association with axons innervating some junctions. We could detect binding on diaphragms that were exposed to as little as 10 pM **botulinum toxin A**, which is in the low range of effective in vitro doses that block neuromuscular transmission. This is a convenient, sensitive, and specific technique for detecting **botulinum toxin A** binding sites that is easily modifiable for the detection of binding sites of other ligands as well.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:636107 HCAPLUS

DOCUMENT NUMBER: 127:292350

TITLE: Low-acid, high-moisture processed cheese spread and method of making

INVENTOR(S): Adrianson, Tim M.; Brown, Alpheus I., Jr.; Busk, G. Curtis, Jr.; Gunther, Stephen A.; Huether, Karen D.; Mann, Joseph W.; Yoss, James K.

09/393590

PATENT ASSIGNEE(S): Nabisco, Inc., USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5670197	A	19970923	US 1995-536406	19950929
PRIORITY APPLN. INFO.:			US 1995-536406	19950929

AB High-moisture, high-pH, shelf-stable cheese spreads containing cheese, preferably a cheese having a pH of 5.4 or lower such as Swiss, Cheddar, American, mozzarella, skim milk cheese, or cheese mixts., water sufficient to provide a total moisture of from 51 to 58% and a pH of from 5.3 to 6.0 are preserved by adding **sodium chloride**, a **phosphate** salt, **sodium citrate**, and **sodium lactate** in sufficient amts. to maintain the composition free from the growth of *Clostridium botulinum* and the production of **toxin** by those organisms during room **temperature** storage for a period of at least 180 days, preferably 300 days. Some embodiments contain 1 to 2% **sodium citrate**, 1 to 2% **sodium lactate**, and a combined level of dibasic **sodium phosphate** and **sodium chloride** ranging between 1.3 and 2.2%, and have a moisture content of 52 to 55%, and an overall pH of about 5.3 to 5.6.

L36 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:998457 HCAPLUS

DOCUMENT NUMBER: 124:54039

TITLE: Growth of proteolytic *Clostridium botulinum* in process cheese products: I. Data acquisition for modeling the influence of pH, **sodium chloride**, emulsifying salts, fat dry basis, and **temperature**

AUTHOR(S): Ter Steeg, Pieter F.; Cuppers, Henk G. A. M.; Hellemons, Johan C.; Rijke, Guus

CORPORATE SOURCE: Unilever Research Laboratory, Vlaardingen, 3133 AT, Neth.

SOURCE: Journal of Food Protection (1995), 58(10), 1091-9
CODEN: JFPRDR; ISSN: 0362-028X

PUBLISHER: International Association of Milk, Food and Environmental Sanitarians

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Outgrowth of proteolytic *Clostridium botulinum* type **A** and **B** spores in pasteurized process cheese products was assessed to acquire data for improved models of *botulinum* stability. High-moisture (58.5%) products were made with different levels of pH (5.45 to 5.9), **sodium chloride** (1.1 to 2.8%, wt/wt) and **citrates** or **phosphates** as emulsifying salts (1.5 to 2%, wt/wt), and held at 15 to 30°C. Supplemental expts. were carried out to address the effect of lactic acid concentration originating from the nonfat and 50% fat dry basis (FDB) cheese raw materials, of moisture (50 to 69%), and of total fat (0.1 to 41%, wt/wt). Colony counts were recorded as substitutes for the traditional times to toxin formation. In the last exptl. series a

polyclonal ELISA against type A and B toxin was carried out as an alternative to the mouse challenge test. Very low spore levels could lead to detectable toxin formation. **Temperature** strongly influenced outgrowth. At 18°C outgrowth only occurred in 3 mo at favorable aw (0.966) and pH (5.9). At 25°C, outgrowth occurred within one week under favorable conditions. No growth occurred within 3 mo when aw and pH were 0.95 and 5.55 resp. Polyphosphate appeared to be more inhibitory than **citrate**. Moisture is a frequently used indicator of botulinum stability, but when the FDB deviates from 50%, moisture is actually a poor indicator. Components such as **NaCl**, emulsifying salts, and lactic acid determine stability. Fat does not contribute to stability. Increased fat levels can reduce moisture without a concomitant increase in stability.

L36 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:679280 HCAPLUS

DOCUMENT NUMBER: 121:279280

TITLE: Inhibitory potential of four-carbon dicarboxylic acids on Clostridium botulinum spores in an uncured turkey product

AUTHOR(S): Miller, Arthur J.; Call, Jeffrey E.

CORPORATE SOURCE: Eastern Regional Research Center, Agricultural Research Service, Philadelphia, PA, 19118, USA

SOURCE: Journal of Food Protection (1994), 57(8), 679-83
CODEN: JFPRDR; ISSN: 0362-028X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Organic acids offer promising options for the food industry in its attempt to ensure product safety and to meet consumer demand for minimally processed foods. In this study, four-carbon dicarboxylic acids were individually screened for their inhibitory potential against proteolytic Clostridium botulinum spores. Ground turkey breast meat was formulated with 1.4% **sodium chloride** (**NaCl**), 0.3% sodium pyrophosphate, 2% organic acid, 8% water, and 500 spores/g of a six-strain mixture of proteolytic C. botulinum. Samples were adjusted to pH 6. Ten g of product in vacuum packages were heated in 75° water for 20 min, cooled, and incubated for 0 to 25 days at 28°. **Botulinum neurotoxin** was detected at two days in control samples (0% acid) and at five days in 2% malic acid (0.13 M), aspartic (0.13 M), tartaric (0.12 M), **succinic** (0.15 M), and fumaric (0.15 M) samples. Toxin was undetected at 25 days in samples treated with maleic acid (0.15 M). Maleic acid reduced total aerobic bacteria and lactic acid organisms in **temperature**-abused product, compared to controls. Further systematic investigation of these and related compds. with prior approval for food-use may demonstrate previously unrecognized antibacterial potential.

L36 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:598192 HCAPLUS

DOCUMENT NUMBER: 121:198192

TITLE: Peptide substrate specificity and properties of the zinc-endopeptidase activity of **botulinum type B neurotoxin**

AUTHOR(S): Shone, Clifford C.; Roberts, April K.

CORPORATE SOURCE: Protein Toxins Section, Cent. Appl. Microbiol. Res., Salisbury, SP4 0JG, UK

SOURCE: European Journal of Biochemistry (1994), 225(1), 263-70
 CODEN: EJBCAI; ISSN: 0014-2956

DOCUMENT TYPE: Journal

LANGUAGE: English

AB **Clostridium botulinum** type **B neurotoxin** has been shown to be a zinc endopeptidase specific for vesicle-associated membrane protein (VAMP). A synthetic peptide of human/rat VAMP-2 [VAMP-2-(60-94)] is cleaved by the neurotoxin with the same specificity as that demonstrated for the membrane-associated protein (at the Gln76-Phe77 bond) and has been used to study the properties of the endopeptidase activity of the neurotoxin. Cleavage of the VAMP-2 peptide was demonstrated by both **botulinum** type **B neurotoxin** ($K_m = 3.3 \times 10^{-4}$ M) and by its purified light subunit ($K_m = 3.5 \times 10^{-4}$ M). The endopeptidase displayed a pH optimum of 7.0-7.5 and was inhibited by greater than 0.2 M NaCl and greater than 0.05 M sodium phosphate. Neurotoxin which had been inactivated by dialysis against EDTA could be re-activated by incubation with various divalent cations, notably Zn^{2+} and Cu^{2+} . The substrate specificity of **botulinum** type **B neurotoxin** was studied using various analogs of VAMP-2 (60-94). The neurotoxin cleaved selectively to the N-terminal side of phenylalanine and tyrosine; no activity was observed with either leucine, valine or alanine in the P1' position. The properties of the P1 amino acid were less critical; the neurotoxin cleaving the C-terminus of glutamine, asparagine and alanine. A substrate analog with valine in the P1 position corresponding to the sequence of rat VAMP-1 was not cleaved. The rate of cleavage of a substrate analog representing the sequence of human VAMP-1, however, was more than twofold that of the VAMP-2 peptide. The properties and substrate specificity of **botulinum** type **B neurotoxin** suggest that the toxin represents a novel class of endopeptidase which requires a specific peptide substrate conformation for the expression of proteolytic activity.

L36 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:190022 HCAPLUS

DOCUMENT NUMBER: 120:190022

TITLE: Comparison of organic acid salts for *Clostridium botulinum* control in an uncured turkey product

AUTHOR(S): Miller, Arthur J.; Call, Jeffrey E.; Whiting, Richard C.

CORPORATE SOURCE: Eastern Reg. Res. Cent., Agric. Res. Serv., Philadelphia, PA, 19118, USA

SOURCE: Journal of Food Protection (1993), 56(11), 958-62
 CODEN: JFPRDR; ISSN: 0362-028X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Health concerns have led consumers toward purchasing nitrite-free, low-salt meat and poultry products. Lacking these barriers to control growth of bacterial pathogens, such products carry heightened risks for botulism, especially if storage temperature is abused. To address this threat, 5 organic acid salts were evaluated as potential antibotulinal agents. Ground turkey breast was formulated with 1.4% NaCl, 0.3% sodium pyrophosphate, 0-6% organic acid salts, 10% ice, and 500 spores per g of a 6-strain mixture of proteolytic *C. botulinum*. Vacuum-packaged product (10 g) was heated in 75° water for 20 min, cooled, and incubated for up to 18 days at 28°. Botulinal neurotoxin was detected by

mouse bioassay at 2 days in samples which lacked any of the test compds. Samples containing 2% acid salt developed neurotoxin, which was detected at 2, 2, 4, 5, and 5 days for pyruvate, **citrate**, lactate, **acetate**, and propionate, resp. With 6% acid salt addns., samples remained neurotoxin free until 7 days with pyruvate, 18 days with **citrate**, and >18 days for the remaining compds. Monocarboxylic acid salts exhibited antibotulinal activity related to their dissociation consts. (pKa). **Citrate** did not fit this pattern, however, suggesting a different mechanism of action. This study reveals that a variety of organic acid salts possess activity that can be used alone or possibly in combination to enhance the safety of nitrite-free turkey products.

L36 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:630844 HCAPLUS

DOCUMENT NUMBER: 111:230844

TITLE: Sodium lactate delays **toxin** production by *Clostridium botulinum* in cook-in-bag turkey products

AUTHOR(S): Maas, M. R.; Glass, K. A.; Doyle, M. P.

CORPORATE SOURCE: Oscar Mayer Foods Corp., Madison, WI, 53707, USA

SOURCE: Applied and Environmental Microbiology (1989), 55(9), 2226-9

CODEN: AEMIDF; ISSN: 0099-2240

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Comminuted raw turkey, containing 1.4% **NaCl**, 0.3% Na **phosphate**, and 0 (control), 2.0, 2.5, 3.0, or 3.5% Na lactate, was inoculated with a 10-strain mixture of proteolytic type **A** and **B C. botulinum** spores. The inoculated turkey was vacuum packaged and cooked by immersion in heated water to an internal **temperature** of 71.1°. Samples were incubated at 27° for up to 10 days. Five samples per treatment were examined for **botulinal toxin** at specific intervals. Na lactate had a concentration-dependent antibotulinal effect. Processed turkey

containing 0, 2.0, 2.5, 3.0, or 3.5% Na lactate was toxic after 3, 4-5, 4-6, 7, or 7-8 days, resp. Subsequent studies with a broth medium revealed that lactate, not Na⁺, was the principal factor in delaying toxin formation.

L36 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:109382 HCAPLUS

DOCUMENT NUMBER: 108:109382

TITLE: The combined effect of sub-optimal **temperature** and sub-optimal pH on growth and **toxin** formation from spores of *Clostridium botulinum*

AUTHOR(S): Graham, Ann F.; Lund, Barbara M.

CORPORATE SOURCE: Inst. Food Res., Norwich Lab., Norwich, NR4 7UA, UK

SOURCE: Journal of Applied Bacteriology (1987), 63(5), 387-93

CODEN: JABAA4; ISSN: 0021-8847

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Low-acid foods (pH ≥4.5) are not sufficiently acidic to prevent growth of *C. botulinum* in otherwise optimal conditions. The combination of sub-optimal pH and sub-optimal **temperature** may,

however, result in a very significant reduction in the risk of growth of this bacterium compared with the risk in optimal conditions. The combined effect of incubation temps. of 12° and 16° and pH values of 5.2-5.5 on growth and toxin production from spores of *C. botulinum* during incubation for 28 days was investigated. Growth and formation of toxin (type B) were detected only in medium at pH 5.5 and incubated at 16°, corresponding to a probability of growth from a single spore of 1.6×10^{-5} within 14 days. The probability of growth in 28 days was $<9 \times 10^{-6}$. After transfer of inoculated media from 12° to 30°, growth occurred within 19 days at pH 5.2-5.5. After transfer of inoculated media from 12° to 20°, growth occurred at pH 5.5 and 5.4 but not at pH 5.3 or 5.2 in 40 days. Growth at pH 5.2-5.5 was accompanied by formation of toxin, in most cases of types A or B. In addition to the effect of sub-optimal temperature and pH, chelation of divalent metals ions by citrate may have contributed to inhibition.

L36 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:456043 HCAPLUS
 DOCUMENT NUMBER: 105:56043
 TITLE: TLC immunostaining characterization of *Clostridium botulinum* type A neurotoxin binding to gangliosides and free fatty acids
 AUTHOR(S): Takamizawa, Kotaro; Iwamori, Masao; Kozaki, Shunji; Sakaguchi, Genji; Tanaka, Ryuichiro; Takayama, Hiroo; Nagai, Yoshitaka
 CORPORATE SOURCE: Fac. Med., Univ. Tokyo, Tokyo, 113, Japan
 SOURCE: FEBS Letters (1986), 201(2), 229-32
 CODEN: FEBLAL; ISSN: 0014-5793
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The receptor structure of *C. botulinum* neurotoxin type A was analyzed by TLC immunostaining. Ganglioside GQ1b [68652-37-9] was the most potent receptor, and the neurotoxin also bound to ganglioside GT1b [59247-13-1] and ganglioside GD1a [12707-58-3], but not to ganglioside GM3 [54827-14-4], ganglioside GM2 [19600-01-2], ganglioside GM1 [37758-47-7], ganglioside GD3 [62010-37-1], ganglioside GD1b [19553-76-5], and ganglioside GT1a [64522-98-1]. Optimum binding of neurotoxin to the ganglioside appeared in 0.01M phosphate buffer (pH 7.2) containing 0.2% NaCl. Higher and lower NaCl concns. diminished neurotoxin binding to the ganglioside. In addition, the neurotoxin was able to bind to free fatty acids. Maximum binding was observed on stearic acid and neurotoxin binding to free fatty acids was not affected by NaCl concentration

L36 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:128561 HCAPLUS
 DOCUMENT NUMBER: 104:128561
 TITLE: Use of preservatives to delay toxin formation by *Clostridium botulinum* (type B, strain okra) in vacuum-packed, cooked potatoes
 AUTHOR(S): Notermans, S.; Dufrenne, J.; Keybets, M. J. H.
 CORPORATE SOURCE: Lab. Water Food Microbiol., Natl. Inst. Public Health Environ. Hyg., Bilthoven, 3720 BA, Neth.
 SOURCE: Journal of Food Protection (1985), 48(10), 851-5

CODEN: JFPRDR; ISSN: 0362-028X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Storage at **temps.** below 4° prevents growth and **toxin** production by *Clostridium botulinum* in vacuum-packed, cooked potatoes. The use of preservatives as an addnl., built-in safety factor has been investigated. Dipping potatoes in a solution of ascorbic [50-81-7] and citric acid [77-92-9] before vacuum-packing and cooking (95° for 50 min) inhibited growth and **toxin** production by proteolytic *C. botulinum* type **B** at an incubation **temperature** of 15° for 70 days and at 20° for ≥ 14 days. This preservative treatment also resulted in an organoleptically acceptable product with a prolonged shelf life. Risk anal. showed that the presence of *C. botulinum* in vacuum-packed, cooked potatoes may be expected, i.e., one spore in each 1585 kg of product. A preservative treatment with a combination of ascorbic and citric acid will limit the public health risk even if the potato product is accidentally stored for a short time at a **temperature** higher than 4°.

L36 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1986:128478 HCAPLUS

DOCUMENT NUMBER: 104:128478

TITLE: Plant trials of bacon made with lactic acid bacteria, sucrose and lowered sodium nitrite

AUTHOR(S): Tanaka, Nobumasa; Meske, Louise; Doyle, Michael P.; Traisman, Edwin; Thayer, Donald W.; Johnston, Ralph W.

CORPORATE SOURCE: Food Res. Inst., Univ. Wisconsin, Madison, WI, 53706, USA

SOURCE: Journal of Food Protection (1985), 48(8), 679-86
CODEN: JFPRDR; ISSN: 0362-028X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Bacon prepared with 40 and 80 mg/kg (ppm) NaNO₂, 0.7% sucrose [57-50-1], and a culture of *Pediococcus acidilactici* (Wisconsin Process), and control bacon prepared with 120 ppm NaNO₂ and no added sucrose or bacterial culture were produced at 3 com. bacon production plants. **NaCl**, **phosphate**, and Na ascorbate (or Na erythorbate) levels, as well as other processing conditions, such as pumping rate, smokehouse **temperature** and time, forming and slicing conditions, were those normally used by each plant. Randomly selected samples of each lot were used for a challenge experiment with *Clostridium botulinum* (types **A** and **B**), with .apprx.1000 heat-shocked spores/g bacon inoculated on each slice, vacuum packaged, and incubated at 27°. Samples were taken periodically up to 56 days of incubation and examined for the presence of **botulin** **toxin**. Test bacon was substantially greater in antibotulinal properties than the control bacon. Residual NaNO₂ levels of test bacon were lower than those of the control bacon, as were nitrosamines formed upon frying. Average N-nitrosopyrrolidine [930-55-2] level was 8.6 µg/kg (ppb) in the control, <2.7 ppb in the 80-ppm NO₂- product, and <1.6 ppb in the 40-ppm NO₂- product. Thus, bacon com. prepared by the Wisconsin Process with 40 or 80 ppm NaNO₂ has a lesser risk of nitrosamine and **botulin** **toxin** formation than bacon prepared with 120 ppm NaNO₂ and no added sucrose and lactic acid bacteria.

L36 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:547322 HCAPLUS
 DOCUMENT NUMBER: 101:147322
 TITLE: Simple and rapid method for extraction of proteins from bacteria
 INVENTOR(S): Bhaduri, Saumya; Demchick, Paul H.
 PATENT ASSIGNEE(S): United States Dept. of Agriculture, USA
 SOURCE: U.S., 3 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4464295	A	19840807	US 1983-524179	19830817
PRIORITY APPLN. INFO.:			US 1983-524179	19830817

AB Bacteria: *Staphylococcus aureus*, *Escherichia coli*, and *Bacillus cereus* were grown for 24 h in brain-heart infusion medium at 37°. *Clostridium botulinum* Was grown anaerobically in the same medium containing 1% arginine to delay autolysis. Cells from the cultures were harvested by centrifugation (7000 + g) washed twice with **phosphate buffered saline**, recentrifuged, resuspended in ice-cold acetone, allowed to stand for 5 min on ice, and collected by centrifugation. Residual acetone was removed and the protein were extracted by incubation with 1% SDS for 2 min. SDS-polyacrylamide gel electrophoresis indicated that the proteins obtained by the method was similar to that obtained by sonication or agitation with glass beads. The yield from *S. aureus* by acetone-SDS extraction was 200 mg protein/g dry weight of cells compared to 175 mg/g by the bead agitation technique. Yields for *B. cereus*, *E. coli*, and *C. botulinum* were 200, 225, and 150 mg proteins/g dry cell, resp. This method is inexpensive, rapid, simple and reproducible.

L36 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:42392 HCAPLUS
 DOCUMENT NUMBER: 94:42392
 TITLE: Isolation and properties of highly purified type **F Clostridium botulinum toxin**
 AUTHOR(S): Uvarova, R. N.; Reshetnikova, L. N.; Ispolatovskaya, M. V.; Bulatova, T. I.
 CORPORATE SOURCE: Inst. Epidemiol. Mikrobiol., Moscow, USSR
 SOURCE: Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii (1980), (11), 42-6
 CODEN: ZMEIAV; ISSN: 0372-9311
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian

AB The steps involved in the isolation of *C. botulinum* **toxin** were initial precipitation with (NH₄)₂SO₄ or Na hexametaphosphate after cultivation of the culture for 4 days at 28°, ultrafiltration through amicon membrane, gel filtration on 2 sephadex G-100 columns and elution with pH 5.6 Na **phosphate-phosphate buffer**, chromatog. on DEAE-cellulose, dialysis in a pH 4.2 **acetate buffer** containing 0.1 M **NaCl**, chromatog. on SP-sephadex (C-50), repeating of dialysis, ultrafiltration and then gel filtration on sephadex G-200, and finally

dialysis and chromatog. on DEAE-cellulose. The activity of the purified toxin ranged 1.5-4 + 107 (min. LD)/mg protein and had a mol. weight of 50,000 daltons.

L36 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:518322 HCAPLUS

DOCUMENT NUMBER: 91:118322

TITLE: Structure and toxicity of Clostridium
botulinum type C Toxin

AUTHOR(S): Syuto, Bunei; Kubo, Shuichiro

CORPORATE SOURCE: Fac. Vet. Med., Hokkaido Univ., Sapporo, 060,
Japan

SOURCE: Japanese Journal of Medical Science & Biology
(1979), 32(2), 132-3

CODEN: JJMCAQ; ISSN: 0021-5112

DOCUMENT TYPE: Journal

LANGUAGE: English

AB C. **botulinum** Toxin C could be separated into 2 peptide chains by chromatog. of QAE-Sephadex A-50 with a linear gradient of NaCl in 6% 2-mercaptoethanol-borate **phosphate buffer** at pH 8.1 and 0°. The components had different antigenicities and antitoxin to either chain neutralized the mother toxin toxicity. Combining the 2 chains gave an active form having 74% of the toxicity of the mother toxin; thus both chains are essential for toxicity. The reconstitution method affected the toxicity of the material prepared from the chains. Tryptophan and tyrosine residues were critical to maintain the toxin toxicity.

L36 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:169232 HCAPLUS

DOCUMENT NUMBER: 86:169232

TITLE: Effect of additional concentration and purification on the antigenic activity and chemical composition of toxoids for use in aerosol vaccines

AUTHOR(S): Shipulina, N. I.; Vasil'eva, I. P.; Didenko, L. A.; Shapareva, S. I.; Karpov, S. P.

CORPORATE SOURCE: Tomsk. Nauchno-Issled. Inst. Vaktsin Syvorotok,
Tomsk, USSR

SOURCE: Trudy - Tomskii Nauchno-Issledovatel'skii Institut
Vaktsin i Syvorotok, Tomskii Meditsinskii Institut
[i] Tomskoe Otdelenie Vserossiiskogo
Nauchno-Meditsinskogo Obshchestva Mikrobiologov,
Epidemiologov i Parazitologov (1975), 25, 159-63
CODEN: TTVMA9; ISSN: 0130-4917

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB The toxoids of Clostridium **botulinum** type A, B, and E were purified by precipitation at pH 3.3-3.5 and dialysis against **phosphate buffer** pH 6.81. C. tetani toxoids were precipitated with 15% NaCl and dialyzed against water. The content of Ca, Na, K, SO42-, B, P, and Cl decreased below those of starting crude toxoids. The antigenic activity and stability during storage also decreased after the purification

L36 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:400877 HCAPLUS

DOCUMENT NUMBER: 85:877

TITLE: Extraction and concentration of Clostridium

botulinum toxins from specimens
 AUTHOR(S): Sonnenschein, B.; Bisping, W.
 CORPORATE SOURCE: Inst. Mikrobiol. Tierseuchen, Tieraerztl. Hochsch.
 Hannover, Hannover, Fed. Rep. Ger.
 SOURCE: Zentralblatt fuer Bakteriologie, Parasitenkunde,
 Infektionskrankheiten und Hygiene, Abteilung 1:
 Originale, Reihe A: Medizinische Mikrobiologie
 und Parasitologie (1976), 234(2), 247-59
 CODEN: ZMMPAO; ISSN: 0300-9688

DOCUMENT TYPE: Journal
 LANGUAGE: German

AB **C. botulinum** toxins A-E were
 added to canned green beans diluted 1:2 with 0.1M **phosphate
 buffer**, pH 6. The preparation was homogenized and centrifuged at
 4000 rpm for 30 min. Fifteen ml of the supernatant was concentrated by
 Millipore ultrafiltration (membrane retaining material with mol. weight
 >25,000) to a volume of 0.5 ml. The 5 toxins were concentrated 14
 .8-112.2-fold.

L36 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1974:105759 HCAPLUS
 DOCUMENT NUMBER: 80:105759
 TITLE: Germination of spores of Clostridium species
 capable of causing food poisoning. II. Effects
 of some chemicals on the germination of spores of
C. botulinum type A

AUTHOR(S): Ando, Yoshiaki
 CORPORATE SOURCE: Hokkaido Inst. Public Health, Sapporo, Japan
 SOURCE: Shokuhin Eiseigaku Zasshi (1973), 14(5), 462-6
 CODEN: SKEZAP; ISSN: 0015-6426

DOCUMENT TYPE: Journal
 LANGUAGE: Japanese

AB Spores of **C. botulinum** type A 190 were heated at
 70° for 10 min in 250mM **phosphate buffer** pH
 6.7, cooled, and then incubated at 37° in germination medium
 containing 5mM L-alanine, 10mM Na L-lactate, 60mM NaHCO₃, and 100mM
phosphate buffer pH 6.7. Addition of 150mM D-alanine
 prevented germination. Addition of ≥5% NaCl or
 ≥1% Na sorbate to the medium retarded germination. EDTA,
 dipicolinic acid, and 2-(2-furyl)-3-(5-nitro-2-furyl)acrylamide showed
 no effect.

L36 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1969:85842 HCAPLUS
 DOCUMENT NUMBER: 70:85842
 TITLE: Purification and molecular dissociation of the
 precursor of Clostridium **botulinum** type
E toxin

AUTHOR(S): Kitamura, Masaru; Sakaguchi, Simiko; Sakaguchi,
 Genji
 CORPORATE SOURCE: Nat. Inst. Health, Tokyo, Japan
 SOURCE: Anaerobic Bact., Proc. Int. Workshop, 5th (1968),
 Meeting Date 1967, 213-22. Editor(s): Fredette,
 V. Inst. Microbiol. Hyg. Montreal Univ.:
 Laval-des-Rapides, Can.
 CODEN: 20QCAI

DOCUMENT TYPE: Conference
 LANGUAGE: English

AB The **toxin** of **C. botulinum** type E is

formed as a nontoxic ribonucleoprotein (I) which can be extracted from the cells with 0.2M **phosphate buffer**, pH 6.0. The protein moiety is purified by precipitation of I by half-saturated (NH₄)₂SO₄, chromatog. on CM-Sephadex C-50 (II) at pH 6.0 (0.02M **acetate buffer**), digestion with RNase, rechromatog. on II at pH 6.0 with a linear concentration gradient of NaCl in 0.02M **acetate buffer**, precipitation by half-saturated (NH₄)₂SO₄, chromatog. on Sephadex G-200, and rechromatog. on II. The toxicity of the product for mice was 2-8 LD₅₀/mg. N, but activation by trypsin raised this to 5-10 LD₅₀/mg. N. The material appeared homogeneous on disk electrophoresis (pH 4) and on ultracentrifugation (pH 4.5 or 6.0, s₂₀, W 11.3-12.3 S), but gave 2 distinct precipitin lines on immunodiffusion and 2 distinct zones on electrophoresis (cellulose **acetate**) at pH 7. Ultracentrifugation at pH 8 (0.05M Veronal **buffer**) gave a single major band, s₂₀, W 7.3 S. Starch-gel electrophoresis at pH 8 (0.05M Veronal **buffer**) gave partial separation into anodic and cathodic peaks; only the latter gave active toxin after treatment with trypsin.

L36 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:46431 HCAPLUS

DOCUMENT NUMBER: 68:46431

TITLE: Chromatographic isolation of hemagglutinin-free **neurotoxin** from crystalline **toxin** of *Clostridium botulinum* type A

AUTHOR(S): DasGupta, Bibhuti R.; Boroff, Daniel A.

CORPORATE SOURCE: Albert Einstein Med. Center, Philadelphia, PA, USA

SOURCE: Biochimica et Biophysica Acta, Protein Structure (1967), 147(3), 603-5
CODEN: BBPTBH; ISSN: 0005-2795

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Crystalline toxin in 0.025 M **phosphate** (I) **buffer** was applied to a DEAE-cellulose column equilibrated with the **buffer**, and eluted with a linear gradient of I. Three distinct peaks plus a trace 4th peak were eluted. The 1st (14 .6% of the total eluted protein) was highly toxic, and showed no hemagglutinating activity. The next 2 strongly agglutinated red blood cells. The 1st peak was the α fraction previously obtained with Tris-HCl **buffer** chromatog. (loc. cit.). It was possible to sep. the α fraction by a 2nd, simpler procedure employing I **buffer**, without application of a gradient elution. The purification on DEAE-cellulose appeared to be as good with I as with Tris-HCl **buffer**. Isolation of the hemagglutinin-free neurotoxin by elution with 0.05M gave higher yields of this fraction than did elution with 0.025M I or Tris-HCl **buffer**. Substitution of Cl⁻ with I did not appear to alter the resolution pattern of crystalline toxin or the neurotoxin. The fraction showed chromatog. homogeneity in both I and Tris-HCl **buffer**.

L36 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:20941 HCAPLUS

DOCUMENT NUMBER: 68:20941

TITLE: Demonstration of bacterial toxins in foodstuffs by means of immunofluorescence

AUTHOR(S): Riemann, Hans

CORPORATE SOURCE: Sch. of Vet. Med., Univ. of California, Davis, CA, USA

SOURCE: Nordisk Veterinaermedicin (1967), 19(4), 188-94
 CODEN: NOVTA; ISSN: 0029-1579
 DOCUMENT TYPE: Journal
 LANGUAGE: Danish

AB Staphylococcal enterotoxin B antitoxin, obtained from rabbits, was conjugated with fluorescein isothiocyanate and purified on DEAE-cellulose and Sephadex columns. The conjugate was adsorbed to nontoxin-producing staphylococcal strains and purified as Sephadex. To avoid false neg. results due to extracellular localization of toxin, the conjugate and culture, after incubation at 30° for 30 min. and at 20° for 4 hrs., were filtered through a 0.22-μ pore filter plus Whatman Number 1 filter paper. Direct prepreparates were prepared by growing cultures on dialysis membranes mounted on blood-agar. The prepreparate was freeze-dried and colored by incubation with conjugate at 37°. With these methods 1 γ toxin/ml. sample was detected. In a quant. modification, antiserum and agar were mixed (50:50) and poured into small glass tubes. Test solution was pipetted on the gel and after 1-7 days incubation, the amount of toxin was estimated, being related to the distance between the surface and the line of precipitation. With this method 4 γ/ml. were detectable after 8 days and 8 γ/ml. after 1 day. The toxin was identified by gel-diffusion technique. These methods were used for determination of toxin in various foods. It was found that 1-10 γ toxin was formed per g. ham on anaerobic storage for 8-13 days at room temperature. The amount of toxin formed varied according to pH and salt concentration. At pH 6.9 and NaCl concentration 10-12 g./100 ml. and pH 5.1 and NaCl concentration 4 g./100 ml. both totally inhibited production of toxin. Com. Clostridium botulinum E antiserum was purified by precipitation with (NH₄)₂SO₄ and chromate on Sephadex and in two steps adsorbed to nontoxin-producing and toxin-producing C. botulinum E. Com. rabbit antihorse serum γ-globulin, conjugated with fluorescein isothiocyanate was dialyzed against a phosphate buffer and chromatographed on a DEAE-cellulose column. Preparates were incubated with antitoxin for 0.5-1 hr. at 37° and again under the same conditions with rabbit antihorse serum. Neither nontoxic strain E nor strain A or B or pseudobotulinum E from toxic cultures of strain E showed fluorescence with reagent. Toxic cultures of strain E showed no fluorescence when tested against antitoxin A or B. Incubations of ham showed, when tested on mice, that toxin was produced when the salt concentration decreased under 2.5 g./100 ml. H₂O; these expts., however, were neg. to the fluorescence being described.

L36 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1962:45110 HCAPLUS
 DOCUMENT NUMBER: 56:45110
 ORIGINAL REFERENCE NO.: 56:8479f-h
 TITLE: Decontamination of drinking water with mobile equipment
 AUTHOR(S): Mehls, Karl F. H.
 SOURCE: GWF, das Gas- und Wasserfach (1961), 102, 1365-9
 CODEN: GAWFAN; ISSN: 0367-3839
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB This is an abridgment of an article to be published as a Dechema monograph. A discussion is presented of the field use of mobile equipment to remove radioactivity, bacteria, viruses, botulins, and war gases from drinking water. In general, better results are secured

by adding filter material, reagents, etc., to the water than by using fixed filter beds. Kieselguhr can be treated with Ag to have a bactericidal effect. Cl kills bacteria and viruses and destroys biol. warfare materials such as the **botulinus toxins** in a few min. This is most conveniently supplied as NaClO from the electrolysis of NaCl solns., although Ca(ClO)₂ can also be used. Where war gases such as **phosphate** esters, are present, these can be removed by hydrolysis at a high pH in the presence of hypochlorite. Adsorption followed by precipitation and the use of flocculants is also suggested. Radioactivity can readily be removed by mixed-bed deionization filters, but the mixed-bed resin deteriorates with time, especially when stored at elevated temps. Handling of the contaminated resin and regeneration is also a problem. M. uses a cation exchanger operating on a Na cycle. Patent coverage on decontamination processes is cited.

L36 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1956:90076 HCAPLUS
DOCUMENT NUMBER: 50:90076
ORIGINAL REFERENCE NO.: 50:16971f-h
TITLE: Isolation of an aminopeptidase from type B **Clostridium botulinum**
AUTHOR(S): Millonig, Robert C.
CORPORATE SOURCE: Johns Hopkins Univ., Baltimore, MD
SOURCE: Journal of Bacteriology (1956), 72, 301-7
CODEN: JOBAAY; ISSN: 0021-9193
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB A method is described for the purification of a proteinase in the culture supernatant of type B **C. botulinum** (Okra strain) by fractional precipitation with (NH₄)₂SO₄ and subsequent repptn. with

NaCl under controlled conditions of pH, (NH₄)₂SO₄ concentration, and temperature. The method is rapid and permits purification of approx. 300-fold with a 15% loss in the amount of enzyme recovered. Solubility measurements and ultracentrifuge analysis on the purified preps. indicate the presence of one component. The proteinase was found to contain little or no tyrosine and tryptophan by study of its absorption in the ultraviolet spectrum. The purified product appears to contain but one proteinase which is optimally activated by Fe⁺⁺-cysteine; and was shown to be an aminopolypeptidase capable of splitting tripeptides but not dipeptides. The ferrous ion is necessary for activity of the enzyme. Binding the ferrous ion with Versene renders the proteinase inactive.

L36 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1947:6248 HCAPLUS
DOCUMENT NUMBER: 41:6248
ORIGINAL REFERENCE NO.: 41:1275c-e
TITLE: Molecular weight and homogeneity of crystalline **botulinus A toxin**
AUTHOR(S): Putnam, Frank W.; Lamanna, Carl; Sharp, D. G.
CORPORATE SOURCE: Camp Detrick, Frederick, MD
SOURCE: Journal of Biological Chemistry (1946), 165, 735-6
CODEN: JBCHA3; ISSN: 0021-9258
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C.A. 40, 4767.2, 6121.2. The electrophoretic, sedimentation, and

diffusion characteristics of crystalline *Clostridium botulinum* type A toxin have been studied in 0.1 N Na acetate buffer, pH 4.38. The toxin is electrophoretically homogeneous and has a mobility of $2.75 + 10^{-5}$ sq. cm. volt⁻¹ sec.⁻¹. The ultracentrifugal sedimentation diagrams show a single symmetrical boundary and yield a value of $S_{20} = 17.3$ Svedberg units. The diffusion constant of a 0.63% solution at 25° by the refractometric scale method is $2.14 + 10^{-7}$ sq. cm. sec.⁻¹. Satisfactory agreement at successive time intervals among the values calculated by different methods and a good fit of the normalized diffusion curves with the ideal distribution curve have been realized. The boundary spread in the ultracentrifuge is greater than that attributable to diffusion alone. If a partial sp. volume of 0.75 is assumed, the mol. weight calculated from S_{20} and D_{20} is 900,000 (cf. C.A. 40, 6560.1); this suggests the presence of $2.1 + 10^7$ mols. per mouse LD₅₀. A tentative frictional value of 1.76 is assigned. If the mols. are assumed to be prolate ellipsoids, this figure corresponds to an axial ratio, $b/a = 14.6$, neglecting hydration.

L36 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1924:26723 HCAPLUS

DOCUMENT NUMBER: 18:26723

ORIGINAL REFERENCE NO.: 18:3621g-i

TITLE: Optimum and limiting hydrogen-ion concentrations for *B. botulinus* and quantitative estimation of its growth. XVI

AUTHOR(S): Dozier, Carrie C.

SOURCE: Journal of Infectious Diseases (1924), 35, 105-33
CODEN: JIDIAQ; ISSN: 0022-1899

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB The optimum range of H-ion concentration for *B. botulinus* in phosphate-buffered double-strength veal infusion + 2% Difco peptone is pH 6.0 to 8.2, inclusive, with a mean near pH 7.0, when vegetative forms are planted. The limiting range for 3-day growths is from pH 5 to 9, inclusive. The indications are that a slight acidity may be a stimulus to spore germination. Approx. the same optimum zone, pH 6.0 to 8.9. was demonstrated for *B. botulinus*, *B. sporogenes* and *B. histolyticus* vegetative inoculums in autolyzed veal infusion. *B. botulinus* grows well at 37°, but the number of viable organisms decreased rapidly at such a temperature. The peak of proliferation is reached somewhat more slowly at 26.5°, and the decline in nos. is retarded. The decline in nos. is followed by autolysis, which is probably the mechanism of toxin formation. Vegetable mediums support fair growth of *B. botulinus*. The most active limiting factor in such mediums seems to be the natural acidity.

(FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN, TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 12:02:38 ON 27 OCT 2005)

L1	1	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	BOTOX/CN
L2	6	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	BOTULIN TOXIN? /CN
L3	8	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	BOTULIN NEUROTOXIN? /CN
L4	8	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	BOTULINUM TOXIN? /CN
L5	14	SEA	FILE=REGISTRY	ABB=ON	PLU=ON	BOTULINUM NEUROTOXIN?

/CN

L6 134 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULIN A ? OR BOTULIN B ? OR BOTULIN C1 ? OR BOTULIN C2 ? OR BOTULIN D ? OR BOTULIN E ? OR BOTULIN F ?)/CN

L7 2 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULINUM A ? OR BOTULINUM B ? OR BOTULINUM C1 ? OR BOTULINUM C2 ? OR BOTULINUM D ? OR BOTULINUM E ? OR BOTULINUM F ?)/CN

L8 156 SEA FILE=REGISTRY ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7

L9 9 SEA FILE=REGISTRY ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN OR "PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)/CN OR "PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR "PHOSPHATE (P4O123-)/CN) OR "PHOSPHATE (P6O186-)/CN OR ("PHOSPHATE (PO3-)/CN OR "PHOSPHATE (PO31-)/CN OR "PHOSPHATE (PO32-)/CN) OR "PHOSPHATE (PO43-)/CN OR "PHOSPHATE (PO4H2-)/CN

L10 1 SEA FILE=REGISTRY ABB=ON PLU=ON CITRATE/CN

L11 1 SEA FILE=REGISTRY ABB=ON PLU=ON ACETATE/CN

L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON SUCCINATE/CN

L13 12 SEA FILE=REGISTRY ABB=ON PLU=ON L9 OR L10 OR L11 OR L12

L15 6 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULIN G ? OR BOTULINUM G ?)/CN

L16 161 SEA FILE=REGISTRY ABB=ON PLU=ON L8 OR L15

L18 1354347 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR PHOSPHATE OR CITRATE OR ACETATE OR SUCCINATE OR SUCCINIC OR BUTANEDIOIC OR ACETIC

L27 6302 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 OR (BO OR BOTULIN?) (5A) (NT OR TOXIN OR NEUROTOXIN OR TOX#) OR BOTOX# OR BONT# OR BOTX# OR BTX# OR (BT OR BN OR BNT#) (S)BOTULIN? OR BOTULIN? (3A) (A OR B OR C1 OR C2 OR D OR E OR F OR G)

L28 290 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 AND L18

L29 66 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 AND (14) OR NACL OR (NA OR SODIUM) (W) (CL OR CHLORIDE) OR SALINE)

L34 22 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 AND BUFFER?

L37 63 SEA L34

L39 35 SEA L37 AND (PH OR (H OR HYDROGEN) (W) ION)

L1 1 SEA FILE=REGISTRY ABB=ON PLU=ON BOTOX/CN

L2 6 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULIN TOXIN? /CN

L3 8 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULIN NEUROTOXIN? /CN

L4 8 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULINUM TOXIN? /CN

L5 14 SEA FILE=REGISTRY ABB=ON PLU=ON BOTULINUM NEUROTOXIN? /CN

L6 134 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULIN A ? OR BOTULIN B ? OR BOTULIN C1 ? OR BOTULIN C2 ? OR BOTULIN D ? OR BOTULIN E ? OR BOTULIN F ?)/CN

L7 2 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULINUM A ? OR BOTULINUM B ? OR BOTULINUM C1 ? OR BOTULINUM C2 ? OR BOTULINUM D ? OR BOTULINUM E ? OR BOTULINUM F ?)/CN

L8 156 SEA FILE=REGISTRY ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7

L9 9 SEA FILE=REGISTRY ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN OR "PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)/CN OR "PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR "PHOSPHATE (P4O123-)/CN) OR "PHOSPHATE (P6O186-)/CN OR ("PHOSPHATE (PO3-)/CN OR "PHOSPHATE (PO31-)/CN OR "PHOSPHATE (PO32-)/CN) OR "PHOSPHATE (PO43-)/CN OR "PHOSPHATE (PO4H2-)/CN

09/393590

L10 1 SEA FILE=REGISTRY ABB=ON PLU=ON CITRATE/CN
L11 1 SEA FILE=REGISTRY ABB=ON PLU=ON ACETATE/CN
L12 1 SEA FILE=REGISTRY ABB=ON PLU=ON SUCCINATE/CN
L13 12 SEA FILE=REGISTRY ABB=ON PLU=ON L9 OR L10 OR L11 OR L12
L15 6 SEA FILE=REGISTRY ABB=ON PLU=ON (BOTULIN G ? OR BOTULINUM
G ?)/CN
L16 161 SEA FILE=REGISTRY ABB=ON PLU=ON L8 OR L15
L18 1354347 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR PHOSPHATE OR
CITRATE OR ACETATE OR SUCCINATE OR SUCCINIC OR BUTANEDIOIC
OR ACETIC
L27 6302 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 OR (BO OR BOTULIN?) (5A
) (NT OR TOXIN OR NEUROTOXIN OR TOX#) OR BOTOX# OR BONT# OR
BOTX# OR BTX# OR (BT OR BN OR BNT#) (S)BOTULIN? OR BOTULIN? (3A) (A OR B OR C1 OR C2 OR D OR E OR F OR G)
L28 290 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 AND L18
L29 66 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 AND (14 OR NACL OR
(NA OR SODIUM) (W) (CL OR CHLORIDE) OR SALINE)
L35 16 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 AND (TEMP OR TEMPERATU
RE)
L38 46 SEA L35
L43 9 SEA L38 AND (STORE# OR STORING OR STORAGE)

L44 39 S (L39 OR L43) NOT L32
L45 20 DUP REM L44 (19 DUPLICATES REMOVED)

L45 ANSWER 1 OF 20 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2005010262 MEDLINE
DOCUMENT NUMBER: PubMed ID: 15635936
TITLE: Factors affecting autocatalysis of **botulinum**
A neurotoxin light chain.
AUTHOR: Ahmed S Ashraf; Ludivico Matthew L; Smith Leonard A
CORPORATE SOURCE: Department of Immunology and Molecular Biology,
Division of Toxinology and Aerobiology, United States
Army Medical Research Institute of Infectious Diseases,
Fort Detrick, MD 21702, USA.. syed.ahmed@amedd.army.mil
SOURCE: Protein J, (2004 Oct) 23 (7) 445-51.
Journal code: 101212092. ISSN: 1572-3887.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200504
ENTRY DATE: Entered STN: 20050108
Last Updated on STN: 20050415
Entered Medline: 20050414

AB The light chain of **botulinum neurotoxin** serotype
A undergoes autocatalytic fragmentation into two major
peptides during purification and storage (Ahmed S. A. et al. 2001, J.
Protein Chemical 20:221-231) by both intermolecular and intramolecular
mechanisms (Ahmed S. A. et al. 2003, Biochemistry 42:12539 12549).
In this study, we investigated the effects of **buffers** and
salts on this autocatalytic reaction in the presence and absence of
zinc chloride. In the presence of zinc chloride, the fragmentation
reaction was enhanced in each of **acetate**, MES, HEPES and
phosphate buffers with maximum occurring in
acetate when compared to those in the absence of zinc
chloride. Adding **sodium chloride** in
phosphate buffer in the presence of zinc chloride

Searcher : Shears 571-272-2528

increased the extent of proteolysis. Irrespective of the presence of zinc chloride, adding **sodium chloride** or potassium chloride in **phosphate buffer** elicited an additional proteolytic reaction. Higher concentrations of sodium **phosphate buffer** enhanced the autocatalytic reaction in the absence of zinc chloride. In contrast, in the presence of zinc chloride, higher concentrations of sodium **phosphate** decreased the autocatalytic reaction. Optimum **pH** of autocatalysis was not affected significantly by the absence or presence of zinc chloride. Like zinc chloride, other chlorides of divalent metals, such as magnesium, cobalt, iron and calcium also enhanced the autocatalytic reaction. Polyols such as ethylene glycol protected the light chain from fragmentation. Exposure of light chain to UV radiation led to enhanced fragmentation. In order to avoid fragmentation, the protein should be stored frozen in a low concentration **buffer** of neutral or higher **pH** devoid of any metal. Our results provide a choice of **buffers** and salts for isolation, purification and storage of intact **botulinum neurotoxin serotype A** light chain.

L45 ANSWER 2 OF 20 MEDLINE on STN DUPLICATE 2
 ACCESSION NUMBER: 2003544311 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 14623391
 TITLE: Combined effects of ionizing-irradiation and different environments on Clostridium **botulinum** type **E** spores.
 AUTHOR: Lim Y H; Hamdy M K; Toledo R T
 CORPORATE SOURCE: Department of Food Science and Technology, University of Georgia, Athens, GA 30602, USA.
 SOURCE: International journal of food microbiology, (2003 Dec 31) 89 (2-3) 251-63.
 Journal code: 8412849. ISSN: 0168-1605.
 PUB. COUNTRY: Netherlands
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200402
 ENTRY DATE: Entered STN: 20031119
 Last Updated on STN: 20040213
 Entered Medline: 20040212

AB We examined the combined effects of gamma-radiation (24 degrees C) on spores of Clostridium botulinum-type Eklund strain suspended in different gas-saturated Na-**phosphate buffer** in absence or presence of protectors or sensitizers. Response surface methodology (RSM) was also used to ascertain the effects of radiation on the recovery of spores using a medium containing various levels of **NaCl** or Na-thioglycollate. The former (< 0.5%) decreased viable spore counts, but the latter (0.15%) did not. Irradiation inactivation of Eklund spores was most effective in air-saturated **buffers** compared to N2O and N2 gas. The Na2-EDTA (0.01 M) was the most efficient radioprotector of spores due to its reactivity toward hydroxy radicals, followed by t-butanol (0.1 M) in NO2 or N(2)-saturated **buffers**, respectively. Catalase (10.0 mg ml(-1)) and DL-cysteine (0.1 mM) sensitized the spores during irradiated N2O or N(2)-saturated **buffers**, and **NaCl** (0.01 M) only sensitized spores in N2 environment. Spores frozen at -75 degrees C for 30 days and thawed prior to use were more sensitive to radiation damage compared to freshly prepared spores. Glycerol

(15%), in Na-phosphate buffer (pH 7.0, 0.06 M), protected Eklund spores and increased the number of spores from 10(6) to 10(11) colony forming unit (CFU) ml⁻¹, and enhanced their radiosensitivities. Seven strains of *C. botulinum* type E were screened for plasmids and strain BL764 had two plasmids (15.8 and 46.8 mDa), BL4028 also had two (4.4 and 13.2 mDa), BL4850 contained only one (4.9 mDa), whereas EQA, BL211, Eklund, and Beluga had none. Gamma-Radiation (10 kGy, absorbed dose) cured the 15.8-mDa plasmid in strain BL764, but its absence yielded no changes in toxigenicity.

L45 ANSWER 3 OF 20 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
 ACCESSION NUMBER: 2001-049992 [06] WPIDS
 DOC. NO. CPI: C2001-013779
 TITLE: Composition useful for e.g. treating nervous system disorders, comprising **botulinum neurotoxin**, is free from natural complexing proteins and is not antigenic.
 DERWENT CLASS: B04 D16
 INVENTOR(S): BIGALKE, H; FREVERT, J
 PATENT ASSIGNEE(S): (BIOT-N) BIOTECON-GES BIOTECHNOLOGISCHE; (MERZ-N) MERZ PHARMA GMBH & CO KGAA; (MRZC) MERZ & CO GMBH & CO; (MRZC) MERZ PHARMA GMBH & CO KGAA; (MRZC) MERZ PHARMA GMBH & CO KG
 COUNTRY COUNT: 94
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2000074703	A2	20001214	(200106)*	GE	14
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
DE 19925739	A1	20001221	(200106)		
AU 2000058047	A	20001228	(200119)		
DE 10081516	T	20010913	(200153)		
NO 2001005964	A	20020130	(200223)		
EP 1185291	A2	20020313	(200225)	GE	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
CZ 2001004351	A3	20020612	(200251)		
KR 2002008214	A	20020129	(200253)		
CN 1354670	A	20020619	(200263)		
HU 2002001530	A2	20020930	(200272)		
JP 2003505343	W	20030212	(200321)		27
ZA 2001010074	A	20030528	(200341)		36
EP 1185291	B1	20040204	(200410)	GE	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
DE 50005208	G	20040311	(200425)		
ES 2215056	T3	20041001	(200466)		
AU 774590	B2	20040701	(200469)		
KR 466407	B	20050127	(200535)		
MX 2001012540	A1	20041101	(200558)		

APPLICATION DETAILS:

Searcher : Shears 571-272-2528

09/393590

PATENT NO	KIND	APPLICATION	DATE
WO 2000074703	A2	WO 2000-DE1777	20000526
DE 19925739	A1	DE 1999-1025739	19990607
AU 2000058047	A	AU 2000-58047	20000526
DE 10081516	T	DE 2000-10081516	20000526
		WO 2000-DE1777	20000526
NO 2001005964	A	WO 2000-DE1777	20000526
		NO 2001-5964	20011206
EP 1185291	A2	EP 2000-943666	20000526
		WO 2000-DE1777	20000526
CZ 2001004351	A3	WO 2000-DE1777	20000526
		CZ 2001-4351	20000526
KR 2002008214	A	KR 2001-715668	20011205
CN 1354670	A	CN 2000-808641	20000526
HU 2002001530	A2	WO 2000-DE1777	20000526
		HU 2002-1530	20000526
JP 2003505343	W	WO 2000-DE1777	20000526
		JP 2001-501237	20000526
ZA 2001010074	A	ZA 2001-10074	20011206
EP 1185291	B1	EP 2000-943666	20000526
		WO 2000-DE1777	20000526
DE 50005208	G	DE 2000-00005208	20000526
		EP 2000-943666	20000526
		WO 2000-DE1777	20000526
ES 2215056	T3	EP 2000-943666	20000526
AU 774590	B2	AU 2000-58047	20000526
KR 466407	B	WO 2000-DE1777	20000526
		KR 2001-715668	20011205
MX 2001012540	A1	WO 2000-DE1777	20000526
		MX 2001-12540	20011205

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000058047	A Based on	WO 2000074703
DE 10081516	T Based on	WO 2000074703
EP 1185291	A2 Based on	WO 2000074703
CZ 2001004351	A3 Based on	WO 2000074703
HU 2002001530	A2 Based on	WO 2000074703
JP 2003505343	W Based on	WO 2000074703
EP 1185291	B1 Based on	WO 2000074703
DE 50005208	G Based on	EP 1185291
	Based on	WO 2000074703
ES 2215056	T3 Based on	EP 1185291
AU 774590	B2 Previous Publ.	AU 2000058047
	Based on	WO 2000074703
KR 466407	B Previous Publ.	KR 2002008214
	Based on	WO 2000074703
MX 2001012540	A1 Based on	WO 2000074703

PRIORITY APPLN. INFO: DE 1999-19925739 19990607

AN 2001-049992 [06] WPIDS

AB WO 200074703 A UPAB: 20041015

NOVELTY - Pharmaceutical composition containing one or more
botulinum neurotoxins (A) from *Clostridium*
botulinum types **A-G** in which (A) is free

Searcher : Shears 571-272-2528

of proteins that are naturally combined with (A) in complexes, is new.

ACTIVITY - Antispasmodic; antimigraine. A patient, with torticollis spasmodicus had been treated with **Botox** (RTM for native neurotoxin-protein complexes) for 5 years and produced neutralizing antibodies, so no longer responded to treatment. He was treated with 145 units of uncomplexed (A), equivalent to the doses of **Botox** (RTM) previously given, and within 72 hr the muscles were relaxed, the head was held normally and muscular pain was alleviated. No adverse effects were observed.

MECHANISM OF ACTION - Motor end plate nerve ending binder.

USE - The composition is used:

(i) to treat nervous system disorders and dystonia (specifically torticollis spasmodicus, belpheospasm, spasticity, hemifacial spasm, migraine, lumbalgia, cervical syndrome and hypersalivation); and

(ii) cosmetically to treat hyperhidrosis and facial wrinkles, most particularly in subjects who already produce neutralizing antibodies against the native complexes.

ADVANTAGE - (A) induces neutralizing antibodies to a lesser extent than the native complexes, or not at all, so can be used for long term treatment. Also it is available immediately and binds directly to nerve endings on the motor end plate. Rats were intracutaneously injected with native (A)-protein complexes or free (A), at 200 pg (A). Four of 8 animals treated with the complex developed neutralizing antibodies that inhibited activity of the toxin, but none of those treated with uncomplexed (A) did.

Dwg.0/0

L45 ANSWER 4 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:123675 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA13504043124S
 TITLE: Method of immunoenzymic detection of **botulin toxin** and apparatus for the detection
 AUTHOR(S): Trojan, Czeslaw; Kuczek, Marian
 CORPORATE SOURCE: ASSIGNEE: Wyzsza Szkola Oficerska im.Tadeusza Kosciuszki
 PATENT INFORMATION: PL 179790 B1 31 Oct 2000
 SOURCE: (2000) Pol., 4 pp.
 CODEN: POXXA7.
 COUNTRY: POLAND
 DOCUMENT TYPE: Patent
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 2001:491426
 LANGUAGE: Polish
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20020319

AB A semiquant. field method for the immunoenzymic detection of **botulin toxin** on glass fiber paper Whatman GF/A is described. Anti-botulotoxin antibodies labeled with fluorescein isothiocyanate (FITC) are fixed on the dry paper in a vertical line. The crossing horizontal line made under UV lamp contains similarly FITC-labeled antibodies with **botulin toxin** or toxoid. After drying the paper is saturated with 1% casein. On the prepared paper, a drop of the aqueous extract of the sample is applied, followed by 0.5 mL stabilized anti-botulotoxin antibodies labeled with peroxidase (1 µg/mL in 0.1 M **phosphate buffer pH 6.5**). After soaking of the solns. into the paper and drying, the paper surface is washed with 1% aqueous **NaCl** with 0.01% cetylpyrimidine HCl detergent in 0.01% **phosphate**

buffer pH 6.5. Subsequently a drop of alc. solution of the chromogenic substrate (tetramethylbenzidine chloride or sulfate) and H₂O₂ are added. The developed color is visually judged pos. or neg. for the **botulin toxin** presence in the sample examined. A simple box device for the test execution is described.

L45 ANSWER 5 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1997:197733 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA12721292350T
 TITLE: Low-acid, high-moisture processed cheese spread and method of making
 AUTHOR(S): Adrianson, Tim M.; Brown, Alpheus I., Jr.; Busk, G. Curtis, Jr.; Gunther, Stephen A.; Huether, Karen D.; Mann, Joseph W.; Yoss, James K.
 CORPORATE SOURCE: ASSIGNEE: Nabisco, Inc.
 PATENT INFORMATION: US 5670197 A 23 Sep 1997
 SOURCE: (1997) U.S., 11 pp.
 CODEN: USXXAM.
 COUNTRY: UNITED STATES
 DOCUMENT TYPE: Patent
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1997:636107
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20020618

AB High-moisture, high-pH, shelf-stable cheese spreads containing cheese, preferably a cheese having a pH of 5.4 or lower such as Swiss, Cheddar, American, mozzarella, skim milk cheese, or cheese mixts., water sufficient to provide a total moisture of from 51 to 58% and a pH of from 5.3 to 6.0 are preserved by adding **sodium chloride**, a **phosphate salt**, **sodium citrate**, and sodium lactate in sufficient amts. to maintain the composition free from the growth of *Clostridium botulinum* and the production of **toxin** by those organisms during room **temperature storage** for a period of at least 180 days, preferably 300 days. Some embodiments contain 1 to 2% **sodium citrate**, 1 to 2% sodium lactate, and a combined level of dibasic sodium **phosphate** and **sodium chloride** ranging between 1.3 and 2.2%, and have a moisture content of 52 to 55%, and an overall pH of about 5.3 to 5.6.

L45 ANSWER 6 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1994:135065 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA12015190022A
 TITLE: Comparison of organic acid salts for *Clostridium botulinum* control in an uncured turkey product
 AUTHOR(S): Miller, Arthur J.; Call, Jeffrey E.; Whiting, Richard C.
 CORPORATE SOURCE: Eastern Reg. Res. Cent., Agric. Res. Serv., Philadelphia, PA, 19118, USA.
 SOURCE: Journal of Food Protection, (1993) Vol. 56, No. 11, pp. 958-62.
 CODEN: JFPRDR. ISSN: 0362-028X.
 COUNTRY: UNITED STATES
 DOCUMENT TYPE: Journal
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1994:190022

LANGUAGE: English
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20020917

AB Health concerns have led consumers toward purchasing nitrite-free, low-salt meat and poultry products. Lacking these barriers to control growth of bacterial pathogens, such products carry heightened risks for botulism, especially if **storage temperature** is abused. To address this threat, 5 organic acid salts were evaluated as potential antibotulinal agents. Ground turkey breast was formulated with 1.4% **NaCl**, 0.3% sodium pyrophosphate, 0-6% organic acid salts, 10% ice, and 500 spores per g of a 6-strain mixture of proteolytic *C. botulinum*. Vacuum-packaged product (10 g) was heated in 75° water for 20 min, cooled, and incubated for up to 18 days at 28°. **Botulinal neurotoxin** was detected by mouse bioassay at 2 days in samples which lacked any of the test compds. Samples containing 2% acid salt developed neurotoxin, which was detected at 2, 2, 4, 5, and 5 days for pyruvate, **citrate**, lactate, **acetate**, and propionate, resp. With 6% acid salt addns., samples remained neurotoxin free until 7 days with pyruvate, 18 days with **citrate**, and >18 days for the remaining compds. Monocarboxylic acid salts exhibited antibotulinal activity related to their dissociation consts. (pKa). **Citrate** did not fit this pattern, however, suggesting a different mechanism of action. This study reveals that a variety of organic acid salts possess activity that can be used alone or possibly in combination to enhance the safety of nitrite-free turkey products.

L45 ANSWER 7 OF 20 MEDLINE on STN DUPLICATE 3
 ACCESSION NUMBER: 86220811 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 3709810
 TITLE: TLC immunostaining characterization of *Clostridium botulinum* type **A neurotoxin** binding to gangliosides and free fatty acids.
 AUTHOR: Takamizawa K; Iwamori M; Kozaki S; Sakaguchi G; Tanaka R; Takayama H; Nagai Y
 SOURCE: FEBS letters, (1986 Jun 9) 201 (2) 229-32.
 Journal code: 0155157. ISSN: 0014-5793.
 PUB. COUNTRY: Netherlands
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 198607
 ENTRY DATE: Entered STN: 19900321
 Last Updated on STN: 19970203
 Entered Medline: 19860714

AB The receptor structure of *Clostridium botulinum* **neurotoxin** type **A** was analysed by TLC immunostaining. GQ1b was found to be the most potent receptor, and the neurotoxin also bound to GT1b and GD1a, but not to GM3, GM2, GM1, GD3, GD1b and GT1a. Optimum binding of neurotoxin to the ganglioside appeared in 0.01 M **phosphate buffer** (pH 7.2) containing 0.2% **NaCl**. Higher and lower **NaCl** concentrations diminished neurotoxin binding to the ganglioside. In addition, the neurotoxin was able to bind to free fatty acids. Maximum binding was observed on stearic acid and neurotoxin binding to free fatty acids was not affected by **NaCl** concentration.

L45 ANSWER 8 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1986:118339 TOXCENTER

COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA10415128561S
 TITLE: Use of preservatives to delay **toxin** formation by *Clostridium botulinum* (type **B**, strain okra) in vacuum-packed, cooked potatoes
 AUTHOR(S): Notermans, S.; Dufrenne, J.; Keybets, M. J. H.
 CORPORATE SOURCE: Lab. Water Food Microbiol., Natl. Inst. Public Health Environ. Hyg., Bilthoven, 3720 BA, Neth..
 SOURCE: Journal of Food Protection, (1985) Vol. 48, No. 10, pp. 851-5.
 CODEN: JFPRDR. ISSN: 0362-028X.
 COUNTRY: NETHERLANDS
 DOCUMENT TYPE: Journal
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1986:128561
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20050517

AB **Storage at temps.** below 4° prevents growth and **toxin** production by *Clostridium botulinum* in vacuum-packed, cooked potatoes. The use of preservatives as an addnl., built-in safety factor has been investigated. Dipping potatoes in a solution of ascorbic [50-81-7] and citric acid [77-92-9] before vacuum-packing and cooking (95° for 50 min) inhibited growth and **toxin** production by proteolytic *C. botulinum* type **B** at an incubation **temperature** of 15° for 70 days and at 20° for ≥ 14 days. This preservative treatment also resulted in an organoleptically acceptable product with a prolonged shelf life. Risk anal. showed that the presence of *C. botulinum* in vacuum-packed, cooked potatoes may be expected, i.e., one spore in each 1585 kg of product. A preservative treatment with a combination of ascorbic and citric acid will limit the public health risk even if the potato product is accidentally **stored** for a short time at a **temperature** higher than 4°.

L45 ANSWER 9 OF 20 MEDLINE on STN DUPLICATE 4
 ACCESSION NUMBER: 81168134 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 6783645
 TITLE: Separation and characterization of heavy and light chains from *Clostridium botulinum* type C **toxin** and their reconstitution.
 AUTHOR: Syuto B; Kubo S
 SOURCE: Journal of biological chemistry, (1981 Apr 25) 256 (8) 3712-7.
 Journal code: 2985121R. ISSN: 0021-9258.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 198106
 ENTRY DATE: Entered STN: 19900316
 Last Updated on STN: 19970203
 Entered Medline: 19810623

AB *Clostridium botulinum* type C **toxin** consists of a heavy and a light chain with molecular weights of 98,000 and 53,000, respectively, which are linked by one disulfide bond. The two components were separated from each other by quaternary aminoethyl

Sephadex A-50 column chromatography by stepwise elution with NaCl in 27.5 mM borax-45 mM sodium dihydrogen phosphate buffer, pH 8.0, containing 5% 2-mercaptoethanol at 0 degrees C. The purified components had different amino acid compositions and antigenicities, and the toxicity of the toxin was neutralized completely by either anti-heavy chain Fab or anti-light chain Fab. the two components could be reconstituted to form an active molecule with recovered toxicity which varied according to the method used. Maximum recovery was obtained in a system in which the intersubunit S--S bond was first formed in the presence of high concentration of neutral salts, after which the concentration of salt was gradually decreased. The reconstituted preparation was highly toxic and had the same properties as the parental toxin on chromatography, sodium dodecyl sulfate-polyacrylamide gel electrophoresis, and immunodiffusion. By the use of three perturbants, the fractions of exposed tryptophans and tyrosines of the preparation were found to be almost the same as that of the parental toxin.

L45 ANSWER 10 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1981:87608 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA09407042392A
 TITLE: Isolation and properties of highly purified type
F Clostridium botulinum
toxin
 AUTHOR(S): Uvarova, R. N.; Reshetnikova, L. N.; Ispolatovskaya,
 M. V.; Bulatova, T. I.
 CORPORATE SOURCE: Inst. Epidemiol. Mikrobiol., Moscow, USSR.
 SOURCE: Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii,
 (1980) No. 11, pp. 42-6.
 CODEN: ZMEIAV. ISSN: 0372-9311.
 COUNTRY: USSR
 DOCUMENT TYPE: Journal
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1981:42392
 LANGUAGE: Russian
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20021203

AB The steps involved in the isolation of C. **botulinum**
toxin were initial precipitation with (NH₄)₂SO₄ or Na
 hexametaphosphate after cultivation of the culture for 4 days at
 28°, ultrafiltration through amicon membrane, gel filtration on
 2 sephadex G-100 columns and elution with pH 5.6 Na
phosphate-phosphate buffer, chromatog. on
 DEAE-cellulose, dialysis in a pH 4.2 **acetate**
buffer containing 0.1 M NaCl, chromatog. on SP-sephadex
 (C-50), repeating of dialysis, ultrafiltration and then gel filtration
 on sephadex G-200, and finally dialysis and chromatog. on
 DEAE-cellulose. The activity of the purified toxin ranged 1.5-4
 + 107 (min. LD)/mg protein and had a mol. weight of 50,000
 daltons.

L45 ANSWER 11 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1979:104152 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA09115118322P
 TITLE: Structure and toxicity of Clostridium
botulinum type C Toxin

AUTHOR(S): Syuto, Bunei; Kubo, Shuichiro
 CORPORATE SOURCE: Fac. Vet. Med., Hokkaido Univ., Sapporo, 060, Japan.
 SOURCE: Japanese Journal of Medical Science & Biology, (1979)
 Vol. 32, No. 2, pp. 132-3.
 CODEN: JJMCAQ. ISSN: 0021-5112.

COUNTRY: JAPAN
 DOCUMENT TYPE: Journal
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1979:518322
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20021210

AB C. **botulinum** Toxin C could be separated into 2 peptide chains by chromatog. of QAE-Sephadex A-50 with a linear gradient of **NaCl** in 6% 2-mercaptoethanol-borate **phosphate buffer** at pH 8.1 and 0°. The components had different antigenicities and antitoxin to either chain neutralized the mother toxin toxicity. Combining the 2 chains gave an active form having 74% of the toxicity of the mother toxin; thus both chains are essential for toxicity. The reconstitution method affected the toxicity of the material prepared from the chains. Tryptophan and tyrosine residues were critical to maintain the toxin toxicity.

L45 ANSWER 12 OF 20 MEDLINE on STN DUPLICATE 5

ACCESSION NUMBER: 76202136 MEDLINE

DOCUMENT NUMBER: PubMed ID: 5836

TITLE: [Extraction and concentration of Clostridium **botulinum** toxins from specimens (author's transl)].
 Extraktion und Anreicherung von Clostridium botulinum-Toxinen aus dem Untersuchungsmaterial.
 AUTHOR: Sonnenschein B; Bisping W
 SOURCE: Zentralblatt fur Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. Erste Abteilung Originale. Reihe A: Medizinische Mikrobiologie und Parasitologie, (1976 Mar) 234 (2) 247-59.
 Journal code: 0331570. ISSN: 0300-9688.

PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: German

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197608

ENTRY DATE: Entered STN: 19900313
 Last Updated on STN: 19970203

Entered Medline: 19760802

AB In order to detect minimal amounts of Clostridium **botulinum** toxins in animal tissue or food specimens it is necessary to use an extraction method which results in concentration of the **botulinum** toxins. In the present examinations, artificially contaminated canned beans were used to develop a suitable procedure for extraction and concentration of **botulinum** toxins A-E. The procedure consisted of 4 steps: 1. Canned beans were diluted 1:2 with 0.1 M **phosphate buffer** pH 6.0. 2. The diluted material was homogenised with an "Ultra-Turrax" homogeniser for 20 sec. 3. The homogenised material was centrifuged at 4000 rpm for 30 min. 4. 15 ml of supernatant was concentrated using a "Millipore ultrafiltration chamber" (with a membrane capable of excluding all material with a molecular weight above 25,000). A pressure of 1.5 atmospheres was

applied until the terminal volume was 0.5 ml. Following extraction and concentration, the samples were assayed for **botulinal toxin** in mice. Using this assay the concentration of the five toxins were shown to be as follows: Type A toxin: 19.0-fold toxin concentration Type B toxin: 14.8-fold toxin concentration Type C toxin: 20.6-fold toxin concentration Type D toxin: 28.2-fold toxin concentration Type E toxin: 112.2-fold toxin concentration

L45 ANSWER 13 OF 20 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation
on STN DUPLICATE 6

ACCESSION NUMBER: 1977:137266 BIOSIS
DOCUMENT NUMBER: PREV197763032130; BA63:32130
TITLE: THE MICROBIOLOGICAL ROLE OF NITRITE AND NITRATE.
AUTHOR(S): ROBERTS T A
SOURCE: Journal of the Science of Food and Agriculture, (1975)
Vol. 26, No. 11, pp. 1755-1760.
CODEN: JSFAAE. ISSN: 0022-5142.

DOCUMENT TYPE: Article
FILE SEGMENT: BA
LANGUAGE: Unavailable

AB In unheated products nitrite, **NaCl** and the pH value contribute to the selection of the bacteria which grow during **storage**. Nitrate is generally believed to serve only as a reservoir for nitrite, but the commercial use of nitrate-free cover brines in the Wiltshire bacon industry shows that such a reservoir is not always essential. Nitrate sometimes reduced the growth rate of bacteria in experimental Wiltshire collar bacon, but had no benefit in back bacon. The clostridia occurring naturally in the bacon grew to higher numbers in collar cured without nitrate than that cured with nitrate. *Clostridium botulinum* (types **A** and **B**) was detected in these bacons, but did not grow in the bacon. In heated products the growth of surviving bacteria is controlled by the interaction of several factors including pH, **NaCl storage temperature** and NaNO_2 or a substance derived from it upon heating. Further experiments are warranted to investigate the effects of dextrose, nitrate, ascorbate and polyphosphate.

L45 ANSWER 14 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1977:82497 TOXCENTER
COPYRIGHT: Copyright 2005 ACS
DOCUMENT NUMBER: CA08623169232P
TITLE: Effect of additional concentration and purification on the antigenic activity and chemical composition of toxoids for use in aerosol vaccines

AUTHOR(S): Shipulina, N. I.; Vasil'eva, I. P.; Didenko, L. A.; Shapareva, S. I.; Karpov, S. P.
CORPORATE SOURCE: Tomsk. Nauchno-Issled. Inst. Vaktsin Syvorotok, Tomsk, USSR.
SOURCE: Trudy - Tomskii Nauchno-Issledovatel'skii Institut Vaktsin i Syvorotok, Tomskii Meditsinskii Institut [i] Tomskoe Otdelenie Vserossiiskogo Nauchno-Meditsinskogo Obshchestva Mikrobiologov, Epidemiologov i Parazitologov, (1975) Vol. 25, pp. 159-63.
CODEN: TTVMA9. ISSN: 0130-4917.

COUNTRY: USSR
DOCUMENT TYPE: Journal
FILE SEGMENT: CAPLUS
OTHER SOURCE: CAPLUS 1977:169232

LANGUAGE: Russian
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20021218

AB The toxoids of *Clostridium botulinum* type A, B, and E were purified by precipitation at pH 3.3-3.5 and dialysis against phosphate buffer pH 6.81. *C. tetani* toxoids were precipitated with 15% NaCl and dialyzed against water. The content of Ca, Na, K, SO₄²⁻, B, P, and Cl decreased below those of starting crude toxoids. The antigenic activity and stability during storage also decreased after the purification

L45 ANSWER 15 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1974:67187 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA08019105759J
 TITLE: Germination of spores of *Clostridium* species capable of causing food poisoning. II. Effects of some chemicals on the germination of spores of *C. botulinum* type A
 AUTHOR(S): Ando, Yoshiaki
 CORPORATE SOURCE: Hokkaido Inst. Public Health, Sapporo, Japan.
 SOURCE: Shokuhin Eiseigaku Zasshi, (1973) Vol. 14, No. 5, pp. 462-6.
 CODEN: SKEZAP. ISSN: 0015-6426.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Journal
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1974:105759
 LANGUAGE: Japanese
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20021218

AB Spores of *C. botulinum* type A 190 were heated at 70° for 10 min in 250mM phosphate buffer pH 6.7, cooled, and then incubated at 37° in germination medium containing 5mM L-alanine, 10mM Na L-lactate, 60mM NaHCO₃, and 100mM phosphate buffer pH 6.7. Addition of 150mM D-alanine prevented germination. Addition of ≥5% NaCl or ≥1% Na sorbate to the medium retarded germination. EDTA, dipicolinic acid, and 2-(2-furyl)-3-(5-nitro-2-furyl)acrylamide showed no effect.

L45 ANSWER 16 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1969:50680 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA07019085842U
 TITLE: Purification and molecular dissociation of the precursor of *Clostridium botulinum* type E toxin
 AUTHOR(S): Kitamura, Masaru; Sakaguchi, Simiko; Sakaguchi, Genji
 CORPORATE SOURCE: Nat. Inst. Health, Tokyo, Japan.
 SOURCE: Anaerobic Bact., Proc. Int. Workshop, 5th, (1968) pp. 213-22.
 CODEN: 20QCAI.
 COUNTRY: JAPAN
 DOCUMENT TYPE: Conference
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1969:85842
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20011116

Last Updated on STN: 20021231

AB The **toxin** of *C. botulinum* type **E** is formed as a nontoxic ribonucleoprotein (I) which can be extracted from the cells with 0.2M **phosphate buffer, pH 6.0**. The protein moiety is purified by precipitation of I by half-saturated (NH₄)₂SO₄, chromatog. on CM-Sephadex C-50 (II) at **pH 6.0** (0.02M **acetate buffer**), digestion with RNase, rechromatog. on II at **pH 6.0** with a linear concentration gradient of **NaCl** in 0.02M **acetate buffer**, precipitation by half-saturated (NH₄)₂SO₄, chromatog. on Sephadex G-200, and rechromatog. on II. The toxicity of the product for mice was 2-8 LD₅₀/mg. N, but activation by trypsin raised this to 5-10 LD₅₀/mg. N. The material appeared homogeneous on disk electrophoresis (**pH 4**) and on ultracentrifugation (**pH 4.5** or **6.0**, s₂₀, W 11.3-12.3 S), but gave 2 distinct precipitin lines on immunodiffusion and 2 distinct zones on electrophoresis (cellulose **acetate**) at **pH 7**. Ultracentrifugation at **pH 8** (0.05M Veronal **buffer**) gave a single major band, s₂₀, W 7.3 S. Starch-gel electrophoresis at **pH 8** (0.05M Veronal **buffer**) gave partial separation into anodic and cathodic peaks; only the latter gave active toxin after treatment with trypsin.

L45 ANSWER 17 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:24747 TOXCENTER

COPYRIGHT: Copyright 2005 ACS

DOCUMENT NUMBER: CA06805020941Q

TITLE: Demonstration of bacterial toxins in foodstuffs by means of immunofluorescence

AUTHOR(S): Riemann, Hans

CORPORATE SOURCE: Sch. of Vet. Med., Univ. of California, Davis, CA, USA.

SOURCE: Nordisk Veterinaermedicin, (1967) Vol. 19, No. 4, pp. 188-94.

CODEN: NOVTA V. ISSN: 0029-1579.

COUNTRY: UNITED STATES

DOCUMENT TYPE: Journal

FILE SEGMENT: CAPLUS

OTHER SOURCE: CAPLUS 1968:20941

LANGUAGE: Danish

ENTRY DATE: Entered STN: 20011116

Last Updated on STN: 20021231

AB Staphylococcal enterotoxin B antitoxin, obtained from rabbits, was conjugated with fluorescein isothiocyanate and purified on DEAE-cellulose and Sephadex columns. The conjugate was adsorbed to nontoxin-producing staphylococcal strains and purified as Sephadex. To avoid false neg. results due to extracellular localization of toxin, the conjugate and culture, after incubation at 30° for 30 min. and at 20° for 4 hrs., were filtered through a 0.22-μ pore filter plus Whatman Number 1 filter paper. Direct prepares were prepared by growing cultures on dialysis membranes mounted on blood-agar. The prepare was freeze-dried and colored by incubation with conjugate at 37°. With these methods 1 γ toxin/ml. sample was detected. In a quant. modification, antiserum and agar were mixed (50:50) and poured into small glass tubes. Test solution was pipetted on the gel and after 1-7 days incubation, the amount of toxin was estimated, being related to the distance between the surface and the line of precipitation. With this method 4 γ/ml. were detectable after 8 days and 8 γ/ml. after 1 day. The toxin was identified by gel-diffusion technique. These methods were used for determination of

toxin in various foods. It was found that 1-10 γ toxin was formed per g. ham on anaerobic **storage** for 8-13 days at room **temperature**. The amount of toxin formed varied according to **pH** and salt concentration. At **pH** 6.9 and **NaCl** concentration 10-12 g./100 ml. and **pH** 5.1 and **NaCl** concentration 4 g./100 ml. both totally inhibited production of toxin. Com. *Clostridium botulinum* E antiserum was purified by precipitation with $(\text{NH}_4)_2\text{SO}_4$ and chromate on Sephadex and in two steps adsorbed to nontoxin-producing and toxin-producing *C. botulinum* E. Com. rabbit antihorse serum γ -globulin, conjugated with fluorescein isothiocyanate was dialyzed against a **phosphate buffer** and chromatographed on a DEAE-cellulose column. Preparates were incubated with antitoxin for 0.5-1 hr. at 37° and again under the same conditions with rabbit antihorse serum. Neither nontoxic strain E nor strain A or B or pseudobotulinum E from toxic cultures of strain E showed fluorescence with reagent. Toxic cultures of strain E showed no fluorescence when tested against antitoxin A or B. Incubations of ham showed, when tested on mice, that toxin was produced when the salt concentration decreased under 2.5 g./100 ml. H_2O ; these expts., however, were neg. to the fluorescence being described.

L45 ANSWER 18 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 1962:14272 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA05608045110H
 TITLE: Decontamination of drinking water with mobile equipment
 AUTHOR(S): Mehls, Karl F. H.
 SOURCE: GWF, das Gas- und Wasserfach, (1961) Vol. 102, pp. 1365-9.
 CODEN: GAWFAN. ISSN: 0367-3839.
 DOCUMENT TYPE: Journal
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1962:45110
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20031104

AB This is an abridgment of an article to be published as a Dechema monograph. A discussion is presented of the field use of mobile equipment to remove radioactivity, bacteria, viruses, botulins, and war gases from drinking water. In general, better results are secured by adding filter material, reagents, etc., to the water than by using fixed filter beds. Kieselguhr can be treated with Ag to have a bactericidal effect. Cl kills bacteria and viruses and destroys biol. warfare materials such as the **botulinus toxins** in a few min. This is most conveniently supplied as NaClO from the electrolysis of **NaCl** solns., although $\text{Ca}(\text{ClO})_2$ can also be used. Where war gases such as **phosphate** esters, are present, these can be removed by hydrolysis at a high pH in the presence of hypochlorite. Adsorption followed by precipitation and the use of flocculants is also suggested. Radioactivity can readily be removed by mixed-bed deionization filters, but the mixed-bed resin deteriorates with time, especially when **stored** at elevated **temps**. Handling of the contaminated resin and regeneration is also a problem. M. uses a cation exchanger operating on a Na cycle. Patent coverage on decontamination processes is cited.

L45 ANSWER 19 OF 20 TOXCENTER COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1947:348 TOXCENTER
 COPYRIGHT: Copyright 2005 ACS
 DOCUMENT NUMBER: CA04105006248E
 TITLE: Molecular weight and homogeneity of crystalline
 botulinus A toxin
 AUTHOR(S): Putnam, Frank W.; Lamanna, Carl; Sharp, D. G.
 CORPORATE SOURCE: Camp Detrick, Frederick, MD.
 SOURCE: Journal of Biological Chemistry, (1946) Vol. 165, pp.
 735-6.
 CODEN: JBCHA3. ISSN: 0021-9258.
 DOCUMENT TYPE: Journal
 FILE SEGMENT: CAPLUS
 OTHER SOURCE: CAPLUS 1947:6248
 ENTRY DATE: Entered STN: 20011116
 Last Updated on STN: 20030624

AB cf. C.A. 40, 4767.2, 6121.2. The electrophoretic, sedimentation, and diffusion characteristics of crystalline *Clostridium botulinum* type **A toxin** have been studied in 0.1 N Na acetate buffer, pH 4.38. The toxin is electrophoretically homogeneous and has a mobility of $2.75 + 10^{-5}$ sq. cm. volt⁻¹ sec.⁻¹. The ultracentrifugal sedimentation diagrams show a single symmetrical boundary and yield a value of $S_{20} = 17.3$ Svedberg units. The diffusion constant of a 0.63% solution at 25° by the refractometric scale method is $2.14 + 10^{-7}$ sq. cm. sec.⁻¹. Satisfactory agreement at successive time intervals among the values calculated by different methods and a good fit of the normalized diffusion curves with the ideal distribution curve have been realized. The boundary spread in the ultracentrifuge is greater than that attributable to diffusion alone. If a partial sp. volume of 0.75 is assumed, the mol. weight calculated from S_{20} and D_{20} is 900,000 (cf. C.A. 40, 6560.1); this suggests the presence of $2.1 + 10^7$ mols. per mouse LD₅₀. A tentative frictional value of 1.76 is assigned. If the mols. are assumed to be prolate ellipsoids, this figure corresponds to an axial ratio, $b/a = 14.6$, neglecting hydration.

L45 ANSWER 20 OF 20 FEDRIP COPYRIGHT 2005 NTIS on STN

ACCESSION NUMBER: 2005:135428 FEDRIP
 NUMBER OF REPORT: AGRIC 0187659
 RESEARCH TITLE: ENZYMOLOGY OF MICROBIAL DEGRADATION OF ORGANIC COMPOUNDS
 STAFF: Principal Investigator: (x ray crystallography)
 Chase, T.
 PERFORMING ORGN: RUTGERS UNIVERSITY, BIOCHEMISTRY & MICROBIOLOGY,
 NEW BRUNSWICK, NEW JERSEY, 08903
 FUNDING: HATCH |c H
 FILE SEGMENT: Department of Agriculture
 SUM To determine characteristics (substrate specificity, kinetic mechanism, native subunit structure) of microbial enzymes involved in degradation of polluting organic compounds. Enzymes to be studied include aromatic alcohol:NAD oxyoreductase, nitrobenzoate reductase, hydroxylaminobenzoate lyase, and gentisate and 1-hydroxy-2-naphthoate oxygenases. To identify the activity of an unidentified gene product linked to aromatic alcohol dehydrogenase, and thus to determine what compounds these enzymes make the organism able to degrade. The enzymes, which have been cloned, will be expressed in *Escherichia coli*, and substrate specificity surveyed in crude extracts. Enzymes then will be purified for study of the kinetic characteristics and mechanism on

selected substrates, native molecular weight determination by gel filtration, and possible X-ray crystallographic determination of structure. Kinetic studies will include variation of concentration of both substrates and use of product and dead-end inhibitors. The function of an unidentified gene product will be investigated by insertion of an intervening sequence into the chromosomal gene and observation of loss of ability to grow on some substrates, to suggest enzymatic function of the gene product. PR pseudoalcaligenes JS45, expressed in *E. coli*, have been purified to near homogeneity. Kinetic study of the YH105 reductase, varying concentrations of both 4-nitrobenzoate and NADPH, showed a sequential mechanism (intersecting plots of $1/v$ vs. $1/[NADPH]$) and substrate inhibition at [4-nitrobenzoate] above 0.25 mM. This contrasts with known nitroaromatic reductases such as that of *Escherichia coli*, which have ping-pong mechanisms, NADPH reducing the bound FMN which subsequently reduces the substrate. The limiting Michaelis constant for 4-nitrobenzoate is 0.0326 ± 0.004 mM, and for NADPH 0.0154 ± 0.00375 mM. The substrate inhibition is competitive vs. NADPH, i.e. slopes of plots of $1/v$ vs. $1/[NADPH]$ increase again at higher 4-nitrobenzoate concentrations. The nitroaromatic reductase of *Ralstonia eutropha* JMP134 similarly shows a sequential mechanism, limiting Michaelis constant for 3-nitrophenol = 2.43 ± 0.14 micromolar, for NADPH 9.61 ± 1.3 micromolar. Comparison of 4-nitrophenol and 4-nitrosophenol (the intermediate product/substrate of the 4-electron reduction) at pH 5.8 (where both are predominantly neutral) also showed a sequential mechanism, 4-nitrosophenol having a much lower Michaelis constant, and both showing substrate inhibition above 0.25 mM. Thus substrate inhibition is not a feature only of the four-electron, two-NADPH reduction. The purified YH105 enzyme appears to be active without FMN, unlike other nitroaromatic reductases (including those of JS45 and JMP134). Kinetic study of the JS45 enzyme has not proceeded as far (the Michaelis constant for NADPH is high, above 0.2 mM, and for nitrobenzene very low), but it has been found that the enzyme is five times as active in **phosphate buffer** as in MOPS (3-morpholinopropanesulfonic acid). The other enzymes show slightly higher activity in **phosphate**. The hydroxylaminobenzoate lyase of YH105, like that of *Comamonas acidovorans* NBA-10 (Groenewegen, P.E.J., and de Bont, J.A.M., Arch. Microbiol. 158:381-6 [1992]) is stabilized by NADH. In an attempt to find the function of cinnamyl alcohol dehydrogenase of *Burkholderia cepacia* DBO-1 (a similar gene is found in *E. coli* and other microorganisms), we have been trying to knock out the gene by insertion of a kanamycin resistance cassette. At least one mutant has been obtained. It grows on aromatic substrates (phthalate, coumarate, benzyl alcohol, phenylalanine) only when supplemented with yeast extract, unlike the wild type organism, suggesting a possible role in coenzyme biosynthesis. PB

FILE 'MEDLINE' ENTERED AT 12:12:12 ON 27 OCT 2005

FILE LAST UPDATED: 26 OCT 2005 (20051026/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>

http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

Searcher : Shears 571-272-2528

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

L46 4451 SEA FILE=MEDLINE ABB=ON PLU=ON "BOTULINUM TOXINS"/CT
 L47 39392 SEA FILE=MEDLINE ABB=ON PLU=ON PHOSPHATES/CT
 L48 1435 SEA FILE=MEDLINE ABB=ON PLU=ON "SUCCINIC ACID"/CT
 L49 15019 SEA FILE=MEDLINE ABB=ON PLU=ON ACETATES/CT
 L50 11647 SEA FILE=MEDLINE ABB=ON PLU=ON CITRATES/CN
 L51 7 SEA FILE=MEDLINE ABB=ON PLU=ON L46 AND (L47 OR L48 OR L49 OR L50)

L51 ANSWER 1 OF 7 MEDLINE on STN
 ACCESSION NUMBER: 89264465 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 2471189
 TITLE: Granulocyte-macrophage colony-stimulating factor and human neutrophils: role of guanine nucleotide regulatory proteins.
 AUTHOR: Gomez-Cambronero J; Yamazaki M; Metwally F; Molski T F; Bonak V A; Huang C K; Becker E L; Sha'afi R I
 CORPORATE SOURCE: Department of Physiology, University of Connecticut Health Center, Farmington 06032.
 CONTRACT NUMBER: AI-09648 (NIAID)
 AI-24935 (NIAID)
 GM-37694 (NIGMS)
 +
 SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1989 May) 86 (10) 3569-73.
 Journal code: 7505876. ISSN: 0027-8424.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 198906
 ENTRY DATE: Entered STN: 19900309
 Last Updated on STN: 20021218
 Entered Medline: 19890628

ED Entered STN: 19900309
 Last Updated on STN: 20021218
 Entered Medline: 19890628

AB The addition of granulocyte-macrophage colony-stimulating factor (GM-CSF) to human neutrophils causes a rapid increase in the basal and fMet-Leu-Phe-stimulated Na⁺ influx and an increase in intracellular pH. The increase can be seen as early as 5 min after the addition of GM-CSF. Changes produced by GM-CSF are totally inhibited by amiloride and are significantly reduced in pertussis toxin-treated cells. The stimulation of the Na⁺/H⁺ exchange mechanism by GM-CSF inhibits further stimulation of this system with either fMet-Leu-Phe or phorbol 12-myristate 13-acetate. In addition, membrane preparations isolated from GM-CSF-treated neutrophils have higher basal and stimulated GTPase activities. The basal and the fMet-Leu-Phe- or platelet-activating factor-stimulated GTPase activities are reduced in pertussis toxin-treated cells. Cells pretreated with GM-CSF accumulate more radioactive phosphate than control cells, and this

increase is diminished by pertussis toxin treatment. In addition, GM-CSF causes a rapid increase in the tyrosine phosphorylation levels of five proteins with molecular masses of 118 kDa, 92 kDa, 78 kDa, 54 kDa, and 40 kDa. These results clearly show that GM-CSF, on its own, can initiate several changes and that these changes are mediated in part by the pertussis toxin-sensitive guanine nucleotide regulatory protein.

L51 ANSWER 2 OF 7 MEDLINE on STN
 ACCESSION NUMBER: 87190484 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 3569302
 TITLE: Botulinum C2 toxin ADP-ribosylates actin and disorganizes the microfilament network in intact cells.
 AUTHOR: Reuner K H; Presek P; Boschek C B; Aktories K
 SOURCE: European journal of cell biology, (1987 Feb) 43 (1) 134-40.
 Journal code: 7906240. ISSN: 0171-9335.
 PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 198705
 ENTRY DATE: Entered STN: 19900303
 Last Updated on STN: 19970203
 Entered Medline: 19870528

ED Entered STN: 19900303

Last Updated on STN: 19970203

Entered Medline: 19870528

AB Botulinum C2 toxin ADP-ribosylates actin in [32P]orthophosphate-labelled intact chick embryo cells (CEC). The toxin-induced rounding up of CEC is correlated with ADP-ribosylation of actin in intact cells in a time and concentration-dependent manner. Both, rounding up of cells and actin ADP-ribosylation, depend on the presence of both components of botulinum C2 toxin (components I and II) and are independent of the ability of CEC to divide. Treatment of CEC with botulinum C2 toxin induced a time-dependent disorganization of the typical architecture of the microfilament network as shown by fluorescein-phalloidin staining. Botulinum C2 toxin decreased the amount of Triton X-100 insoluble actin, while the fraction of Triton soluble actin was increased. Actin, which was 32P-labelled by botulinum C2 toxin in intact CEC, was recovered in the Triton soluble but not in the Triton insoluble actin fraction. It is suggested that in intact CEC botulinum C2 toxin causes ADP-ribosylation of G-actin but not of F-actin thereby leading to an accumulation in the pool of monomeric actin.

L51 ANSWER 3 OF 7 MEDLINE on STN
 ACCESSION NUMBER: 85278125 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 2992374
 TITLE: Inhibition of Clostridium botulinum 52A toxicity and protease activity by sodium acid pyrophosphate in media systems.
 AUTHOR: Wagner M K; Busta F F
 SOURCE: Applied and environmental microbiology, (1985 Jul) 50 (1) 16-20.
 Journal code: 7605801. ISSN: 0099-2240.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English

FILE SEGMENT: Priority Journals
 ENTRY MONTH: 198509
 ENTRY DATE: Entered STN: 19900320
 Last Updated on STN: 19970203
 Entered Medline: 19850916

ED Entered STN: 19900320

Last Updated on STN: 19970203

Entered Medline: 19850916

AB The effects of two pH levels (5.55 or 5.85) in combination with 0.4% sodium acid pyrophosphate (SAPP), $\text{NaH}_2\text{PO}_4 \times \text{H}_2\text{O}$, $\text{Na}_2\text{HPO}_4 \times 7\text{H}_2\text{O}$, or NaCl on the growth and toxicity of *Clostridium botulinum* 52A were studied. Absorbancy measurements at 630 nm, microscopic observations, and the mouse bioassay procedure were used to observe the effects. At pH 5.55 and 5.85 most control cultures exhibited toxicity when cell lysis began. Vegetative cell development was normal (4 micron long; 1 micron wide). SAPP-containing (0.4%) treatment cultures displayed similar growth and lysis but no or delayed (48 h) toxicity. Cells grown in the SAPP treatment culture were longer and wider (6 micron long; 1.5 micron wide) than in most other treatment cultures. Trypsinization of nontoxic supernatants from 0.4% SAPP resulted in toxicity. Addition of 0.4% SAPP to toxic *C. botulinum* supernatant delayed but did not prevent death of mice. The addition of various levels of SAPP to toxic supernatants resulted in a decrease in zone size with an increase in the level of SAPP (9 mm with 0.4% SAPP to 7 mm with 1.0% SAPP), using a dual substrate protease assay. A decrease in the zone size also occurred with the supernatant from cultures grown in the presence of SAPP and with *Bacillus polymyxa* protease dilutions containing 0.4% SAPP. Results suggest that the actual production or function of the protease responsible for toxin activation may have been inhibited by the presence of SAPP.

L51 ANSWER 4 OF 7 MEDLINE on STN
 ACCESSION NUMBER: 73221663 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 4719441
 TITLE: Disulfide-toxicity relationship of botulinal toxin types A, E, and F.
 AUTHOR: Sugiyama H; Das Gupta R; Yang K H
 SOURCE: Proceedings of the Society for Experimental Biology and Medicine. Society for Experimental Biology and Medicine (New York, N. Y.), (1973 Jul) 143 (3) 589-91.
 Journal code: 7505892. ISSN: 0037-9727.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 197309
 ENTRY DATE: Entered STN: 19900310
 Last Updated on STN: 19970203
 Entered Medline: 19730924

ED Entered STN: 19900310

Last Updated on STN: 19970203

Entered Medline: 19730924

L51 ANSWER 5 OF 7 MEDLINE on STN
 ACCESSION NUMBER: 73026881 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 4342990
 TITLE: Ultrastructural studies of the effects of various agents on the motor neurons of the spinal cord.
 AUTHOR: Yates R D; Yates J C

09/393590

SOURCE: American journal of anatomy, (1972 Nov) 135 (3) 345-57.
Journal code: 0376312. ISSN: 0002-9106.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 197301
ENTRY DATE: Entered STN: 19900310
Last Updated on STN: 19970203
Entered Medline: 19730103
ED Entered STN: 19900310
Last Updated on STN: 19970203
Entered Medline: 19730103

L51 ANSWER 6 OF 7 MEDLINE on STN
ACCESSION NUMBER: 72092593 MEDLINE
DOCUMENT NUMBER: PubMed ID: 4944802
TITLE: Heat resistance of spores of marine and terrestrial
strains of Clostridium botulinum type C.
AUTHOR: Segner W P; Schmidt C F
SOURCE: Applied microbiology, (1971 Dec) 22 (6) 1030-3.
Journal code: 7605802. ISSN: 0003-6919.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 197204
ENTRY DATE: Entered STN: 19900310
Last Updated on STN: 19970203
Entered Medline: 19720404
ED Entered STN: 19900310
Last Updated on STN: 19970203
Entered Medline: 19720404

L51 ANSWER 7 OF 7 MEDLINE on STN
ACCESSION NUMBER: 70107475 MEDLINE
DOCUMENT NUMBER: PubMed ID: 4312998
TITLE: A study of the effect of ionizing radiation on
resistance, germination, and toxin synthesis of
Clostridium botulinum spores, types A, B, and E.
COO-1095-3.
AUTHOR: Graikoski J T; Kempe L L
SOURCE: COO [reports]. U. S. Atomic Energy Commission, (1966
Jan 14) 1-100.
Journal code: 21830370R.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 197003
ENTRY DATE: Entered STN: 19900101
Last Updated on STN: 19970203
Entered Medline: 19700322
ED Entered STN: 19900101
Last Updated on STN: 19970203
Entered Medline: 19700322

09/393590

(FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN, TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 12:14:47 ON 27 OCT 2005)

Author(s)

L52 512 S "MOYER E"?/AU
L53 37 S "HIRTZER P"?/AU
L54 3 S L52 AND L53
L55 3 S (L52 OR L53) AND L28
L56 3 S L54 OR L55
L57 1 DUP REM L56 (2 DUPLICATES REMOVED)

L57 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 2000:190943 CAPLUS

DOCUMENT NUMBER: 132:227422

TITLE: Stable liquid formulations of **Botulinum toxin**

INVENTOR(S): **Moyer, Elizabeth; Hirtzer, Pamela**

PATENT ASSIGNEE(S): Elan Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000015245	A2	20000323	WO 1999-US20912	19990909
WO 2000015245	A3	20000608		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW			
RW:	AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
TW 574036	B	20040201	TW 1999-88114941	19990831
CA 2342243	AA	20000323	CA 1999-2342243	19990909
AU 9958214	A1	20000403	AU 1999-58214	19990909
AU 755556	B2	20021212		
BR 9913585	A	20010605	BR 1999-13585	19990909
EP 1112082	A2	20010704	EP 1999-945649	19990909
EP 1112082	B1	20020731		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
TR 200100728	T2	20010821	TR 2001-200100728	19990909
SI 20566	C	20011231	SI 1999-20081	19990909
EE 200100140	A	20020617	EE 2001-140	19990909
JP 2002524527	T2	20020806	JP 2000-569829	19990909
AT 221386	E	20020815	AT 1999-945649	19990909
ES 2181473	T3	20030216	ES 1999-945649	19990909
NZ 509349	A	20030829	NZ 1999-509349	19990909
ZA 2001001709	A	20021128	ZA 2001-1709	20010228
NO 2001001207	A	20010509	NO 2001-1207	20010309
LV 12684	B	20011020	LV 2001-56	20010410
BG 105435	A	20011231	BG 2001-105435	20010410
LT 4959	B	20021025	LT 2001-41	20010410
PRIORITY APPLN. INFO.:			US 1998-99870P	P 19980911

Searcher : Shears 571-272-2528

09/393590

WO 1999-US20912

W 19990909

AB The invention includes liquid formulations of **botulinum toxin** that are stable to storage in liquid form at standard refrigerator temps. for at least 1-2 yr and to storage at higher temps. for at least 6 mo. The invention also includes methods of treatment using such formulations and uses of such formulations in the manufacture of medicaments for various therapeutic and cosmetic treatments. A formulation was prepared containing **Botulinum toxin Type B** 500±100 LD50U/mL, di-Na **succinate** 10 mM, NaCl 100 mM, human albumin 0.5 mg/mL, and HCl for pH adjustment.

09/393590

FILE 'HCAPLUS' ENTERED AT 14:53:15 ON 27 OCT 2005

L58 17 S L28 AND L14
L59 2 S L58 AND (L24 OR HSA OR ALBUMIN OR GELATIN)
L60 4 S L58 AND BUFFER?
L61 1 S L60 AND (TEMP OR TEMPERATURE)
L62 0 S (L59 OR L61) NOT (L30 OR L36)

*-key terms w/
corrected L#
for NaCl RN*

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN,
TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 14:53:52 ON 27 OCT 2005

L63 4 S L59
L64 1 S L61
L65 0 S (L63 OR L64) NOT (L32 OR L44)

FILE 'HOME' ENTERED AT 14:59:15 ON 27 OCT 2005

09/393590

=> d his ful

(FILE 'HOME' ENTERED AT 11:40:58 ON 27 OCT 2005)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 11:41:09 ON 27 OCT 2005

E BOTOX/CN 5
L1 1 SEA ABB=ON PLU=ON BOTOX/CN
D CN
E BOTULIN TOXIN/CN 5
L2 6 SEA ABB=ON PLU=ON BOTULIN TOXIN? /CN
L3 8 SEA ABB=ON PLU=ON BOTULIN NEUROTOXIN? /CN
L4 8 SEA ABB=ON PLU=ON BOTULINUM TOXIN? /CN
L5 14 SEA ABB=ON PLU=ON BOTULINUM NEUROTOXIN? /CN
L6 134 SEA ABB=ON PLU=ON (BOTULIN A ? OR BOTULIN B ? OR BOTULIN
C1 ? OR BOTULIN C2 ? OR BOTULIN D ? OR BOTULIN E ? OR
BOTULIN F ?)/CN
L7 2 SEA ABB=ON PLU=ON (BOTULINUM A ? OR BOTULINUM B ? OR
BOTULINUM C1 ? OR BOTULINUM C2 ? OR BOTULINUM D ? OR
BOTULINUM E ? OR BOTULINUM F ?)/CN
L8 156 SEA ABB=ON PLU=ON L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7

E PHOSPHATE/CN
L9 9 SEA ABB=ON PLU=ON (PHOSPHATE/CN OR "PHOSPHATE (32PO4)"/CN
OR "PHOSPHATE (H2PO4-)/CN OR "PHOSPHATE (H2PO41-)/CN OR
"PHOSPHATE (HPO42-)/CN OR "PHOSPHATE (P2O74-)/CN OR
"PHOSPHATE (P4O123-)/CN) OR "PHOSPHATE (P6O186-)/CN OR
("PHOSPHATE (PO3-)/CN OR "PHOSPHATE (PO31-)/CN OR
"PHOSPHATE (PO32-)/CN) OR "PHOSPHATE (PO43-)/CN OR
"PHOSPHATE (PO4H2-)/CN
E CITRATE/CN 5
L10 1 SEA ABB=ON PLU=ON CITRATE/CN
E ACETATE/CN 5
L11 1 SEA ABB=ON PLU=ON ACETATE/CN
E SUCCINATE/CN 5
L12 1 SEA ABB=ON PLU=ON SUCCINATE/CN
D CN
L13 12 SEA ABB=ON PLU=ON L9 OR L10 OR L11 OR L12
L14 445 SEA ABB=ON PLU=ON SODIUM CHLORIDE ?/CN
E BONT/CN 5

FILE 'HCAPLUS' ENTERED AT 11:45:22 ON 27 OCT 2005

FILE 'REGISTRY' ENTERED AT 11:47:35 ON 27 OCT 2005

L15 6 SEA ABB=ON PLU=ON (BOTULIN G ? OR BOTULINUM G ?)/CN
L16 161 SEA ABB=ON PLU=ON L8 OR L15

FILE 'HCAPLUS' ENTERED AT 11:47:44 ON 27 OCT 2005

L*** DEL 3892 S L16 OR (BO BOTULIN?) (5A) (NT OR TOXIN OR NEUROTOXIN OR TOX
L17 4721 SEA ABB=ON PLU=ON L16 OR (BO OR BOTULIN?) (5A) (NT OR
TOXIN OR NEUROTOXIN OR TOX#) OR BOTOX# OR BONT# OR BOTX#
OR (BT OR BN OR BNT#) (S) BOTULIN? OR BOTULIN? (3A) (A OR B OR
C1 OR C2 OR D OR E OR F OR G)
L18 1354347 SEA ABB=ON PLU=ON L13 OR PHOSPHATE OR CITRATE OR ACETATE
OR SUCCINATE OR SUCCINIC OR BUTANEDIOIC OR ACETIC
L19 246 SEA ABB=ON PLU=ON L17 AND L18
L20 63 SEA ABB=ON PLU=ON L19 AND (14 OR NA CL OR (NA OR SODIUM) (W
) (CL OR CHLORIDE) OR SALINE)

09/393590

FILE 'REGISTRY' ENTERED AT 11:49:57 ON 27 OCT 2005

E HUMAN SERUM ALBUMIN/CN 5
L21 3 SEA ABB=ON PLU=ON HUMAN SERUM ALBUMIN ?/CN
E SERUM ALBUMIN/CN 5
L22 62 SEA ABB=ON PLU=ON SERUM ALBUMIN ?/CN
E GELATINS/CN 5
L23 1 SEA ABB=ON PLU=ON GELATINS/CN
L24 66 SEA ABB=ON PLU=ON L21 OR L22 OR L23

FILE 'HCAPLUS' ENTERED AT 11:50:43 ON 27 OCT 2005

L25 3 SEA ABB=ON PLU=ON L20 AND (L24 OR HSA OR SER## ALBUMIN
OR GELATIN)
L26 8 SEA ABB=ON PLU=ON L20 AND (L24 OR HSA OR ALBUMIN OR
GELATIN)

FILE 'REGISTRY' ENTERED AT 11:52:32 ON 27 OCT 2005

FILE 'HCAPLUS' ENTERED AT 11:52:32 ON 27 OCT 2005

D QUE L26
D L26 1-8 .BEVSTR

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN,
TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 11:52:33 ON 27 OCT 2005

FILE 'HCAPLUS' ENTERED AT 11:54:16 ON 27 OCT 2005

L27 6302 SEA ABB=ON PLU=ON L16 OR (BO OR BOTULIN?) (5A) (NT OR
TOXIN OR NEUROTOXIN OR TOX#) OR BOTOX# OR BONT# OR BOTX#
OR BTX# OR (BT OR BN OR BNT#) (S) BOTULIN? OR BOTULIN? (3A) (A
OR B OR C1 OR C2 OR D OR E OR F OR G)
L28 290 SEA ABB=ON PLU=ON L27 AND L18
L29 66 SEA ABB=ON PLU=ON L28 AND (14 OR NACL OR (NA OR SODIUM) (W
) (CL OR CHLORIDE) OR SALINE)
L*** DEL 3 S L29 AND (L24 OR HSA OR SER## ALBUMIN OR GELATIN)
L30 8 SEA ABB=ON PLU=ON L29 AND (L24 OR HSA OR ALBUMIN OR
GELATIN)
D QUE L30
L31 0 SEA ABB=ON PLU=ON L30 NOT L26

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN,
TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 11:55:55 ON 27 OCT 2005

L32 16 SEA ABB=ON PLU=ON L30
L33 11 DUP REM L32 (5 DUPLICATES REMOVED)
D 1-11 IBIB ABS

FILE 'HCAPLUS' ENTERED AT 11:59:55 ON 27 OCT 2005

L34 22 SEA ABB=ON PLU=ON L29 AND BUFFER?
L35 16 SEA ABB=ON PLU=ON L29 AND (TEMP OR TEMPERATURE)
L36 28 SEA ABB=ON PLU=ON (L34 OR L35) NOT L30
D KWIC
D 1-28 IBIB ABS

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN,
TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 12:02:38 ON 27 OCT 2005

L37 63 SEA ABB=ON PLU=ON L34
L38 46 SEA ABB=ON PLU=ON L35
L39 35 SEA ABB=ON PLU=ON L37 AND (PH OR (H OR HYDROGEN) (W) ION)

D KWIC
L40 4 SEA ABB=ON PLU=ON L39 AND (TEMP OR TEMPERATURE)

Searcher : Shears 571-272-2528

09/393590

D KWIC
L41 0 SEA ABB=ON PLU=ON L38 AND CENTIGRADE
L42 0 SEA ABB=ON PLU=ON L38 AND CELSIUS
L43 9 SEA ABB=ON PLU=ON L38 AND (STORE# OR STORING OR STORAGE)

D KWIC
L44 39 SEA ABB=ON PLU=ON (L39 OR L43) NOT L32
L45 20 DUP REM L44 (19 DUPLICATES REMOVED)
D QUE L39
D QUE L43
D L45 1-20 IBIB ABS

FILE 'MEDLINE' ENTERED AT 12:12:12 ON 27 OCT 2005
E BOTULINUM TOXINS/CT 5
L46 4451 SEA ABB=ON PLU=ON "BOTULINUM TOXINS"/CT
E BOTULINUM NEUROTOXINS/CT 5
E PHOSPHATES/CT 5
L47 39392 SEA ABB=ON PLU=ON PHOSPHATES/CT
E SUCCINIC ACID/CT 5
L48 1435 SEA ABB=ON PLU=ON "SUCCINIC ACID"/CT
E ACETATES/CT 5
L49 15019 SEA ABB=ON PLU=ON ACETATES/CT
E CITRATE/CN 5
E CITRATES/CN 5
L50 11647 SEA ABB=ON PLU=ON CITRATES/CN
L51 7 SEA ABB=ON PLU=ON L46 AND (L47 OR L48 OR L49 OR L50)
D QUE
D 1-7 .BEVERLYMED

FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO,
PHIC, PHIN, TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 12:14:47
ON 27 OCT 2005
L52 512 SEA ABB=ON PLU=ON "MOYER E"?/AU
L53 37 SEA ABB=ON PLU=ON "HIRTZER P"?/AU
L54 3 SEA ABB=ON PLU=ON L52 AND L53
L55 3 SEA ABB=ON PLU=ON (L52 OR L53) AND L28
L56 3 SEA ABB=ON PLU=ON L54 OR L55
L57 1 DUP REM L56 (2 DUPLICATES REMOVED)
D IBIB ABS

FILE 'HOME' ENTERED AT 12:19:21 ON 27 OCT 2005
D COST

FILE 'HCAPLUS' ENTERED AT 14:43:46 ON 27 OCT 2005
L*** DEL 17 S L19 AND L14
L*** DEL 2 S L58 AND (L24 OR HSA OR ALBUMIN OR GELATIN)
L*** DEL 4 S L58 AND BUFFER?
L*** DEL 1 S L60 AND (TEMP OR TEMPERATURE)
L*** DEL 17 S L28 AND L14
L*** DEL 2 S L58 AND (L24 OR HSA OR ALBUMIN OR GELATIN)
L*** DEL 4 S L58 AND BUFFER?
L*** DEL 1 S L60 AND (TEMP OR TEMPERATURE)
L*** DEL 0 S (L59 OR L61) NOT (L30 OR L36)

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN,
TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 14:49:14 ON 27 OCT 2005
L*** DEL 4 S L59
D QUE L14

09/393590

FILE 'HCAPLUS' ENTERED AT 14:53:15 ON 27 OCT 2005
L58 17 SEA ABB=ON PLU=ON L28 AND L14
L59 2 SEA ABB=ON PLU=ON L58 AND (L24 OR HSA OR ALBUMIN OR
GELATIN)
L60 4 SEA ABB=ON PLU=ON L58 AND BUFFER?
L61 1 SEA ABB=ON PLU=ON L60 AND (TEMP OR TEMPERATURE)
L62 0 SEA ABB=ON PLU=ON (L59 OR L61) NOT (L30 OR L36)

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS, JICST-EPLUS, JAPIO, PHIC, PHIN,
TOXCENTER, PASCAL, FEDRIP, DISSABS' ENTERED AT 14:53:52 ON 27 OCT 2005
L63 4 SEA ABB=ON PLU=ON L59
L64 1 SEA ABB=ON PLU=ON L61
L65 0 SEA ABB=ON PLU=ON (L63 OR L64) NOT (L32 OR L44)

FILE 'HOME' ENTERED AT 14:59:15 ON 27 OCT 2005

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 26 OCT 2005 HIGHEST RN 866186-08-5
DICTIONARY FILE UPDATES: 26 OCT 2005 HIGHEST RN 866186-08-5

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMI
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FILE HCAPLUS

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FILE COVERS 1907 - 27 Oct 2005 VOL 143 ISS 18

FILE LAST UPDATED: 26 Oct 2005 (20051026/ED)

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FILE MEDLINE

FILE LAST UPDATED: 26 OCT 2005 (20051026/UP). FILE COVERS 1950 TO DA

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>

http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 26 October 2005 (20051026/ED)

FILE RELOADED: 19 October 2003.

FILE EMBASE

FILE COVERS 1974 TO 20 Oct 2005 (20051020/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

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FILE WPIDS

FILE LAST UPDATED: 24 OCT 2005 <20051024/UP>

MOST RECENT DERWENT UPDATE: 200568 <200568/DW>

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT:

http://www.stn-international.de/training_center/patents/stn_guide.pdf

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE

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<http://thomsonderwent.com/coverage/latestupdates/> <<<
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<http://thomsonderwent.com/support/dwpioref/reftools/classification/code>
FOR DETAILS. <<<

FILE JICST-EPLUS
FILE COVERS 1985 TO 24 OCT 2005 (20051024/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED
TERM (/CT) THESAURUS RELOAD.

FILE JAPIO
FILE LAST UPDATED: 4 OCT 2005 <20051004/UP>
FILE COVERS APR 1973 TO JUNE 30, 2005

<<< GRAPHIC IMAGES AVAILABLE >>>

FILE PHIC
FILE COVERS CURRENT RECORDS AND IS UPDATED DAILY
FILE LAST UPDATED: 26 OCT 2005 (20051026/ED)

FILE PHIN
FILE COVERS 1980 TO 21 OCT 2005 (20051021/ED)

FILE TOXCENTER

FILE COVERS 1907 TO 25 Oct 2005 (20051025/ED)

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identification.

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TOXCENTER has been enhanced with new file segments and search fields.
See HELP CONTENT for more information.

TOXCENTER thesauri in the /CN, /CT, and /MN fields incorporate the
MeSH 2005 vocabulary. See <http://www.nlm.nih.gov/mesh/> and
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html for a
description of changes.

FILE PASCAL
FILE LAST UPDATED: 24 OCT 2005 <20051024/UP>
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE

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IN THE BASIC INDEX (/BI) FIELD <<<

FILE FEDRIP

FILE COVERS CURRENT DATA. LAST UPDATE: 16 SEP 2005 (20050916/ED)

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FILE DISSABS

FILE COVERS 1861 TO 26 OCT 2005 (20051026/ED)

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FILE COVERS 1907 - 27 Oct 2005 VOL 143 ISS 18
FILE LAST UPDATED: 26 Oct 2005 (20051026/ED)

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27oct05 13:21:47 User219783 Session D2121.2

SYSTEM:OS - DIALOG OneSearch

File 65:Inside Conferences 1993-2005/Oct W4

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File 440:Current Contents Search(R) 1990-2005/Oct 27

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File 113:European R&D Database 1997

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*File 113: This file is closed (no updates)

Set	Items	Description
S2	10936	(BO OR BOTULIN?) (5N) (NT OR NEUROTOXIN? ? OR TOXIN? ? OR TOX??) OR BOTOX?? OR BONT?? OR BOTX?? OR BTX?? OR (BT OR BN OR - BNT??) (10N) BOTULIN? OR BOTULIN?(3N) (A OR B OR C1 OR C2 OR D OR E OR F OR G)
S3	517116	PHOSPHATE OR SUCCINATE OR SUCCINIC OR ACETATE OR CITRATE OR BUTANEDIOIC OR ACETIC
S4	901	S2 AND S3
S5	335	S4 AND (NACL OR (NA OR SODIUM) (W) (CL OR CHLORIDE) OR SALIN-E)
S6	158	S5 AND (HSA(S)ALBUMIN OR SER??(W)ALBUMIN OR GELATIN? ?)
S7	146	S6 AND BUFFER?
S8	131	S7 AND (TEMP? ? OR TEMPERATURE? ?)
S9	125	S8 AND (PH OR (HYDROGEN OR H) (W) ION)
S10	7	S9 AND (CENTIGRADE OR CELSIUS)
S11	33	S9 AND ((UNIT? ? OR U) (2N) (ML OR MILLILIT? OR MILLI (W) (LIT-ER? OR LITRE?)))
S12	39	S10 OR S11
S13	39	RD (unique items)

>>>No matching display code(s) found in file(s): 65, 113

-key terms

13/3,AB/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01967963

Compounds that block C5a complement receptor and their use in therapy
Substanzen die der C5a Komplementrezeptor blockieren und deren Verwendung
in der Therapie

Composes qui bloquent le recepteur du complement C5a et leur utilisation en
therapie

PATENT ASSIGNEE:

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Searcher : Shears 571-272-2528

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PATENT (CC, No, Kind, Date): EP 1586583 A2 051019 (Basic)
APPLICATION (CC, No, Date): EP 2004076120 040416;
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR
EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK
INTERNATIONAL PATENT CLASS: C07K-014/31; A61K-038/16; G01N-033/566

ABSTRACT EP 1586583 A2

The present invention relates to compounds that are able to prevent intramolecular contact of the N-terminal residues 10 to 18 of human C5aR with the extracellular loops thereof. More specifically the invention relates to compounds that are able to bind the aspartates in positions 10, 15 and 18 and the glycine in position 12 of the human C5aR. Such compounds are preferably of the general formula
Xn))-E-X39)))-K-X7)))-Y-V-X11)))-Y-Xm)), wherein Xn)), X39)), X7)), X11)) and Xm)) are stretches of amino acids and the other letters represent the corresponding amino acids or non-proteinogenic analogs thereof. The invention further relates to their use in prophylaxis and therapy.

ABSTRACT WORD COUNT: 104

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200542	1875
SPEC A	(English)	200542	9283
Total word count - document A			11158
Total word count - document B			0
Total word count - documents A + B			11158

13/3,AB/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01949240

Globular assembly of amyloid beta protein and uses thereof
Globularer Aufbau vom Amyloid-beta- protein und deren Verwendungen
Assemblage de proteine amyloide beta globulaire et ses utilisations
PATENT ASSIGNEE:

THE UNIVERSITY OF SOUTHERN CALIFORNIA, (446674), University Park Los Angeles,, California 90089, (US), (Applicant designated States: all)
Northwestern University, (204952), 633 Clark Street Evanston, Illinois 60208, (US), (Applicant designated States: all)

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PATENT (CC, No, Kind, Date): EP 1571158 A2 050907 (Basic)

APPLICATION (CC, No, Date): EP 2004027742 000804;

PRIORITY (CC, No, Date): US 369236 990804

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

RELATED PARENT NUMBER(S) - PN (AN):

EP 1200470 (EP 2000952571)

INTERNATIONAL PATENT CLASS: C07K-014/47; A61K-038/04; G01N-033/68

ABSTRACT EP 1571158 A2

The invention provides amyloid beta-derived dementing ligands (ADDLs) that comprise amyloid (beta) protein assembly bled into globular non-fibrillar oligomeric structures capable of activating specific cellular processes. The invention provides methods for assaying the formation, presence, receptor protein binding and cellular activity of ADDLs, as well as compounds that block the formation or activity of ADDLs, and methods of identifying such compounds. The invention further provides methods of using ADDLs, and modulating ADDL formation and/or activity, inter alia in the treatment of learning and/or memory disorders.

ABSTRACT WORD COUNT: 86

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200536	453
SPEC A	(English)	200536	24150
Total word count - document A			24603
Total word count - document B			0
Total word count - documents A + B			24603

13/3,AB/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01856099

Antisense modulation of BCL-X expression

Antisense Modulation der BCL-X Expression

Modulation antisens de l'expression du gene BCL-X

PATENT ASSIGNEE:

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Hallybone, Huw George et al (53032), Carpmaels and Ransford, 43-45

Bloomsbury Square, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 1507005 A2 050216 (Basic)

09/393590

EP 1507005 A3 050615
APPLICATION (CC, No, Date): EP 2004077688 990928;
PRIORITY (CC, No, Date): US 167921 981007; US 277020 990326; US 323743
990602
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE
RELATED PARENT NUMBER(S) - PN (AN):
EP 1119579 (EP 99949943)
INTERNATIONAL PATENT CLASS: C12N-015/11; C07H-021/04; C07H-021/02;
A61K-048/00; C12N-015/85; C12N-015/86

ABSTRACT EP 1507005 A2

Compositions and methods are provided for modulating the expression of bcl-x. Antisense compounds, particularly antisense oligonucleotides, targeted to nucleic acids encoding bcl-x are preferred. Methods of using these compounds for modulation of bcl-x expression and for treatment of diseases associated with expression of bcl-x are also provided. Methods of sensitizing cells to apoptotic stimuli are also provided.

ABSTRACT WORD COUNT: 58

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200507	1492
SPEC A	(English)	200507	18182
Total word count - document A			19674
Total word count - document B			0
Total word count - documents A + B			19674

13/3,AB/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01843065

Preparation of fully human antibodies
Methoden zur Herstellung ganzlich humaner Antikorper.
Methodes pour la preparation des anticorps entierement humains
PATENT ASSIGNEE:

CCL Holdings Co., Ltd., (4931710), 8F, 163, Section 1 Ji-Long Road,
Taipei, (TW), (Applicant designated States: all)

INVENTOR:

Chin, Li-Te, 9F-5, No.12, Lane 175, Wu-Ling Road, Hsin-Chu 300, (TW)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1498426 A1 050119 (Basic)

APPLICATION (CC, No, Date): EP 2004016838 040716;

PRIORITY (CC, No, Date): US 622003 030716

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
HU; IE; IT; LI; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; HR; LT; LV; MK

INTERNATIONAL PATENT CLASS: C07K-016/00; C12N-005/00; C07K-016/10

ABSTRACT EP 1498426 A1

The present invention provides a method of preparing fully human antibodies that recognize a pre-determined antigen without relying on human donors that have already been exposed to the antigen. To this end, lymphocytes from naive human donors are immunized in vitro with the antigen of interest, and cells that produce antibodies against the

Searcher : Shears 571-272-2528

antigen are identified. Since the lymphocytes are immunized in vitro rather than in vivo, it is possible to control which antigen, or which part of the antigen, would be recognized by the antibody. A preferred antigen is gp120 of HIV, particularly the co-receptor binding region of gp120.

ABSTRACT WORD COUNT: 101

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200503	882
SPEC A	(English)	200503	8412
Total word count - document A			9294
Total word count - document B			0
Total word count - documents A + B			9294

13/3,AB/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01801253

Affinity proteins for controlled application of cosmetic substances
Proteine mit hoher Affinitat fur kosmetische Substanzen mit gesteuerter
Anwendung

Proteines a forte affinite pour des actives cosmetiques pour une
application controlee

PATENT ASSIGNEE:

L-MAbs B.V., (4297560), Agro Business Park 40, 6708 PW Wageningen, (NL),
(Applicant designated States: all)

INVENTOR:

Houtzager, Erwin, Koenestraat 13, 3958 XD Amerongen, (NL)
Vijn, Irma Maria Caecilia, Haldwerweg 105, 6721 ZJ Bennekom, (NL)
Sijmons, Peter Christiaan, Valeriusstraat 210-3, 1075 GK Amsterdam, (NL)
Mudge, Grant, 196 Lonetown Road, West Redding, Connecticut 06496, (US)
Fadel, Addi, 135 Long Hill Road, Shelton, Connecticut 06484, (US)
Valinotti, Tony, 4 Lester Road, Sandy Hook, Connecticut 06482, (US)

LEGAL REPRESENTATIVE:

Prins, Adrianus Willem, Mr. Ir. et al (20903), Vereenigde, Nieuwe
Parklaan 97, 2587 BN Den Haag, (NL)

PATENT (CC, No, Kind, Date): EP 1470824 A1 041027 (Basic)

APPLICATION (CC, No, Date): EP 2002080206 021210;

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
IE; IT; LI; LU; MC; NL; PT; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS: A61K-047/48; C07K-016/18

ABSTRACT EP 1470824 A1

Provided are means and methods for applying cosmetic substance to a desired target. The method comprising providing a conjugate of a proteinaceous substance having a specific affinity for said target molecule linked to a cosmetic substance, whereby the resulting connection between cosmetic substance and target molecule can be disrupted upon the presence of a chemical and/or physical signal.

ABSTRACT WORD COUNT: 59

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200444	919
SPEC A	(English)	200444	31252
Total word count - document A			32171
Total word count - document B			0
Total word count - documents A + B			32171

13/3,AB/6 (Item 6 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2005 European Patent Office. All rts. reserv.

01779146

ADP-ribosyltransferase c3cer
 ADP-Ribosyltransferase c3cer
 ADP-ribosyltransferase c3cer

PATENT ASSIGNEE:

Migragen AG, (4151551), Spemannstrasse 34, 72076 Tübingen, (DE),
 (Applicant designated States: all)

INVENTOR:

Aktories, Klaus, Prof. Dr. Dr., Ezmattenweg 22, 79189 Bad Krozingen, (DE)
 Wilde, Christian, Dr., Kandelstrasse 44, 79106 Freiburg, (DE)

LEGAL REPRESENTATIVE:

Bosl, Raphael, Dr.rer.nat., Dipl.-Chem. (74947), Patentanwälte Isenbruck
 Bosl Horschler Wichmann Huhn Prinzregentenstrasse 68, 81675 München,
 (DE)

PATENT (CC, No, Kind, Date): EP 1452589 A1 040901 (Basic)
 EP 1452589 A1 040901

APPLICATION (CC, No, Date): EP 2003004346 030228;

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;
 HU; IE; IT; LI; LU; MC; NL; PT; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO

INTERNATIONAL PATENT CLASS: C12N-009/10; C12N-015/62; C12N-015/54;
 C12N-005/10; A61K-038/45; C07K-014/21

ABSTRACT EP 1452589 A1

The present invention relates to the ADP-Ribosyltransferase C3cer and
 its use for the preparation of a pharmaceutical composition for the
 regeneration of neurons and/or the stimulation of the growth of neurons.

ABSTRACT WORD COUNT: 32

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200436	770
SPEC A	(English)	200436	6930
Total word count - document A			7700
Total word count - document B			0
Total word count - documents A + B			7700

13/3,AB/7 (Item 7 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2005 European Patent Office. All rts. reserv.

01674389

Transgenic and cloned mammals
 Transgen- und klonierte Saugentiere
 Mammifères transgéniques et clones

PATENT ASSIGNEE:

GTC Biotherapeutics, Inc., (4312522), 175 Crossing Boulevard,,
 Framingham, MA 01702, (US), (Applicant designated States: all)

INVENTOR:

Echelard, Yann, 248 Moss Hill Road, Jamaica Plains, MA 02131, (US)

LEGAL REPRESENTATIVE:

Ruffles, Graham Keith (43043), Marks & Clerk, 66-68 Hills Road,
 Cambridge, Cambridgeshire CB2 1LA, (GB)

PATENT (CC, No, Kind, Date): EP 1375654 A2 040102 (Basic)

APPLICATION (CC, No, Date): EP 2003014030 991102;

PRIORITY (CC, No, Date): US 106728 981102; US 298508 990422; US 298971
 990423; US 131328 990426

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
 LU; MC; NL; PT; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 1127113 (EP 99971451)

INTERNATIONAL PATENT CLASS: C12N-015/00; A01K-067/027; C07K-014/81

ABSTRACT EP 1375654 A2

The invention features methods of making cloned and transgenic non-human mammals, for instance goats. The methods include making a somatic cell line, for instance a transgenic somatic cell line, which can be used as a donor cell, methods of producing a cloned or transgenic non-human mammal by introducing the genome of a somatic cell into an enucleated oocyte, preferably a naturally matured oocyte in the metaphase II stage of meiotic cell division, to form a reconstructed embryo, and methods of transferring the reconstructed embryo. The invention also includes cell lines, reconstructed embryos and cloned or transgenic non-human mammals.

ABSTRACT WORD COUNT: 99

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200401	635
SPEC A	(English)	200401	25452
Total word count - document A			26087
Total word count - document B			0
Total word count - documents A + B			26087

13/3,AB/8 (Item 8 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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01663911

Genetically engineered vaccine strain
 Gentechnologisch hergestellter Stamm für Impfstoffe
 Souche de vaccin mise au point par génie génétique
 PATENT ASSIGNEE:

Connaught Technology Corporation, (4514650), 3711 Kennett Pike, Suite 200
 , Greenville, DE 19807, (US), (Applicant designated States: all)

INVENTOR:

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Perkus, Marion E., Box 276A, RD No. 2, 4971 Western Turnpike, Altamont,
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Taylor, Jill, 22 Rose Court, Albany, NY 12209, (US)

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(US)

Johnson, Gerard P., 100 Devitt Road, Waterford, NY 12188, (US)

Pincus, Steven E., 78 Troy Road, East Greenbush, NY 12061, (US)

Cox, William I., 1 Washington Place, Troy, NY 12180, (US)

Audonnet, Jean-Christophe Francis, 596 Warren Street No. 6, Albany, NY
12201, (US)

Gettig, Russell Gilbert, R.D. 2, Box 421 C, Averill Park, NY 12018, (US)

LEGAL REPRESENTATIVE:

Mallalieu, Catherine Louise et al (69621), D. Young & Co., 21 New Fetter
Lane, London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 1367128 A1 031203 (Basic)

APPLICATION (CC, No, Date): EP 2003018214 920309;

PRIORITY (CC, No, Date): US 666056 910307; US 713967 910611; US 847951
920306

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; MC; NL;
SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 575491 (EP 92908110)

INTERNATIONAL PATENT CLASS: C12N-015/863; C12N-007/00; C12N-015/00;
C12P-021/06; A61K-039/12

ABSTRACT EP 1367128 A1

What is described is a modified vector, such as a recombinant poxvirus, particularly recombinant vaccinia virus, having enhanced safety. The modified recombinant virus has nonessential virus-encoded genetic functions inactivated therein so that virus has attenuated virulence. In one embodiment, the genetic functions are inactivated by deleting an open reading frame encoding a virulence factor. In another embodiment, the genetic functions are inactivated by insertional inactivation of an open reading frame encoding a virulence factor. What is also described is a vaccine containing the modified recombinant virus having nonessential virus-encoded genetic functions inactivated therein so that the vaccine has an increased level of safety compared to known recombinant virus vaccines.

ABSTRACT WORD COUNT: 110

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200349	738
SPEC A	(English)	200349	103084
Total word count - document A			103822
Total word count - document B			0
Total word count - documents A + B			103822

13/3,AB/9 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01616603

Therapeutic use of non-neurotoxic clostridium **botulinum** toxin
type C2

Therapeutische Verwendung des nicht-neurotoxischen Clostridium
Botulinum Toxins Typ C2

Utilisation therapeutique de non-neurotoxic **botulinum** clostridium
toxine type C2

PATENT ASSIGNEE:

Botulinum Toxin Research Associates, Inc., (4042650), 1261

Furnace Brook Parkway, Quincy, Massachusetts 02169, (US), (Applicant
designated States: all

INVENTOR:

Borodic, Gary E., 90 Kensington Drive, Canton, Massachusetts 02021, (US)

LEGAL REPRESENTATIVE:

Gardner, Rebecca (90041), Frank B. Dehn & Co. 179 Queen Victoria Street,
London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 1334729 A1 030813 (Basic)

APPLICATION (CC, No, Date): EP 2002250834 020207;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A61K-038/45; C12N-009/10; A61P-037/00;
A61P-027/00; A61P-021/00

ABSTRACT EP 1334729 A1

The invention relates to clostridial toxin compositions and their use
for the treatment of diseases, particularly diseases which are associated
with pain, inflammation and irritation, as well as movement disorders. In
particular, the invention provides a **botulinum** toxin
which substantially lacks neurotoxic activity, or a biologically active
component thereof which substantially lacks neurotoxic activity, for use
in therapy.

ABSTRACT WORD COUNT: 59

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200333	713
SPEC A	(English)	200333	6857
Total word count - document A			7570
Total word count - document B			0
Total word count - documents A + B			7570

13/3,AB/10 (Item 10 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01586625

TAILOR-MADE MULTIFUNCTIONAL STEM CELLS AND UTILIZATION THEREOF

GEZIET HERGESTELLTE MULTIFUNKTIONELLE STAMMZELLEN UND IHRE VERWENDUNG

CELLULES SOUCHES MULTIFONCTIONNELLES ADAPTEES ET UTILISATION DE CES
DERNIERES

PATENT ASSIGNEE:

ReproCELL Inc., (4629280), The Imperial Tower Hotel 12F, 1-1-1

Uchisaiwaicho, Chiyoda-ku, Tokyo 100-0011, (JP), (Applicant designated

States: all)

Nakatsuji, Norio, (4399760), 273-7, Iwakuranishigawaracho, Sakyo-ku, Kyoto-shi, Kyoto 606-0014, (JP), (Applicant designated States: all)
Tada, Takashi, (4399780), 49-10, Yoshidashimoojicho, Sakyo-ku, Kyoto-shi, Kyoto 606-8314, (JP), (Applicant designated States: all)

INVENTOR:

NAKATSUJI, Norio, 273-7, Iwakuranishigawaracho, Sakyo-ku, Kyoto-shi, Kyoto 606-0014, (JP)
TADA, Takashi, 49-10, Yoshidashimoojicho, Sakyo-ku, Kyoto-shi, Kyoto 606-8314, (JP)
TADA, Masako, 49-10, Yoshidashimoojicho, Sakyo-ku, Kyoto-shi, Kyoto 606-8314, (JP)

LEGAL REPRESENTATIVE:

Holliday, Louise Caroline (95451), D Young & Co, 21 New Fetter Lane, London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 1437404 A1 040714 (Basic)

WO 2003027278 030403

APPLICATION (CC, No, Date): EP 2002799492 020920; WO 2002JP9732 020920

PRIORITY (CC, No, Date): JP 2001290005 010921

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12N-015/02; C12N-005/06; C12N-009/10;

C12Q-001/02; A61L-027/38; A61K-045/00; A61K-048/00

ABSTRACT EP 1437404 A1

An object of the present invention is to efficiently establish cells, tissues, and organs capable of serving as donors for treating diseases, without eliciting immune rejection reactions, without starting with an egg cell. This object was achieved by providing a pluripotent stem cell having a desired genome. The cell was produced by treating with a reprogramming agent, producing a fusion cell of an MHC deficient stem cell with a somatic cell, or after producing a fusion cell of a stem cell with a somatic cell, removing a gene derived from the stem cell by performing genetic manipulation with a retrovirus.

ABSTRACT WORD COUNT: 101

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200429	1269
SPEC A	(English)	200429	30554
Total word count - document A			31823
Total word count - document B			0
Total word count - documents A + B			31823

13/3,AB/11 (Item 11 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01468215

CELL PROLIFERATION INHIBITORS COMPRISING ETS TRANSCRIPTION FACTOR OR GENE ENCODING THE SAME

ZELLPROLIFERATIONSHEMMER MIT ETS-TRANSKRIPTIONSFAKTOR ODER DAFUR KODIERENDES GEN

INHIBITEURS DE LA PROLIFERATION CELLULAIRE COMPRENANT UN FACTEUR DE

09/393590

TRANSCRIPTION ETS OU UN GENE CODANT CE DERNIER
PATENT ASSIGNEE:

HISAMITSU PHARMACEUTICAL CO. INC., (444623), 408, Tashirodaikanmachi,
Tosu-shi, Saga-ken 841-0017, (JP), (Applicant designated States: all)

INVENTOR:

KAI, Hirofumi, 3-10-30, Kokubu, Kumamoto-shi, Kumamoto 862-0949, (JP)
HISATSUNE, Akinori, c/o HISAMITSU PHARMA. CO. INC., 25-11, Kannondai
1-chome, Tsukuba-shi, Ibaraki 305-0856, (JP)

LEGAL REPRESENTATIVE:

Cresswell, Thomas Anthony et al (50351), J.A. KEMP & CO. 14 South Square
Gray's Inn, London WC1R 5JJ, (GB)

PATENT (CC, No, Kind, Date): EP 1366773 A1 031203 (Basic)
EP 1366773 A8 050727
WO 2002064165 020822

APPLICATION (CC, No, Date): EP 2002712308 020213; WO 2002JP1180 020213

PRIORITY (CC, No, Date): JP 200134834 010213

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A61K-045/00; A61K-038/17; A61K-031/711;
A61K-048/00; A61P-043/00; A61P-035/00; A61P-029/00; G01N-033/15;
G01N-033/50

ABSTRACT EP 1366773 A1

It is found out that an ETS transcription factor (more specifically, an ETS transcription factor MEF) has a potent effect of inhibiting cell proliferation and an effect of inhibiting MMP production. Based on this finding, novel cell proliferation inhibitors (more specifically, novel remedies for tumor and novel antirheumatics) with the use of the ETS transcription factor MEF or a gene encoding the same are provided. Namely, cell proliferation inhibitors comprising an ETS transcription factor or gene encoding the same or a substance controlling the effect of the ETS transcription factor or the gene encoding the same. Also, matrix metalloprotease (MMP) (more specifically, MMP-9) production inhibitors or IL-8 production inhibitors comprising the ETS transcription factor or gene encoding the same or a substance controlling the effect of the ETS transcription factor or the gene encoding the same are provided.

ABSTRACT WORD COUNT: 139

NOTE:

Figure number on first page: 10

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200349	671
SPEC A	(English)	200349	14067
Total word count - document A			14738
Total word count - document B			0
Total word count - documents A + B			14738

13/3,AB/12 (Item 12 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01421490

METHOD OF AMPLIFYING NUCLEIC ACID
VERFAHREN ZUR VERVIELFALTIGUNG VON NUKLEINSAUREN
PROCEDE D'AMPLIFICATION D'ACIDE NUCLEIQUE

Searcher : Shears 571-272-2528

PATENT ASSIGNEE:

TAKARA BIO INC., (4118471), 4-1, Seta 3-chome, Otsu-shi, Shiga 520-2193,
(JP), (Applicant designated States: all)

INVENTOR:

SAGAWA, Hiroaki, 6-32, Nishishibukawa 2-chome, Kusatsu-shi, Shiga
525-0025, (JP)
UEMORI, Takashi, 709, Sharumankopo-daini-seta, 1-16, Oe 3-chome,
Otsu-shi, Shiga 520-2141, (JP)
MUKAI, Hiroyuki, 1461-82, Aza Minamikawa, Mizuho-cho, Moriyama-shi, Shiga
524-0102, (JP)
YAMAMOTO, Junko, 332-2, Furutaka-cho, Moriyama-shi, Shiga 524-0044, (JP)
TOMONO, Jun;, 313, Hamoparesu-Kusatsu, 2-12-1, Nishishibukawa,
Kusatsu-shi, Shiga 525-0025, (JP)
KOBAYASHI, Eiji, 18-19, Ichiriyama 6-chome, Otsu-shi, Shiga 520-2153,
(JP)
ENOKI, Tatsuji, 202, Inouehausu, 10-23, Nango 1-chome, Otsu-shi, Shiga
520-0865, (JP)
ASADA, Kiyozo, 3-20-9, Kibogaoka, Konan-cho, Koka-gun, Shiga 520-3333,
(JP)
KATO, Ikunoshin, 1-1-150, Nanryo-cho, Uji-shi, Kyoto 611-0028, (JP)

LEGAL REPRESENTATIVE:

Grund, Martin, Dr. et al (90762), Dr. Volker Vossius Patentanwaltskanzlei
Geibelstrasse 6, 81679 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1312682 A1 030521 (Basic)
WO 2002016639 020228

APPLICATION (CC, No, Date): EP 2001956988 010821; WO 2001JP7139 010821

PRIORITY (CC, No, Date): JP 2000251981 000823; JP 2000284419 000919; JP
2000288750 000922; JP 2001104191 010403

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12Q-001/68; C12N-015/09

ABSTRACT EP 1312682 A1

A method of highly sensitively and specifically amplifying a target nucleic acid in a sample by using a chimeric oligonucleotide primer having a ribonucleotide provided at the 3'-terminus or in the 3'-terminal side, an endoribonuclease and a DNA polymerase having a chain transfer activity, i.e., an isothermal and chimeric primer-initiated amplification of nucleic acids (ICAN) method; a method of detecting an amplified fragment obtained by using the above method; a process for producing a target nucleic acid by using the above amplification method; and chimeric oligonucleotide primers to be used in these methods.

ABSTRACT WORD COUNT: 94

NOTE:

Figure number on first page: 0035

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200321	5981
SPEC A	(English)	200321	57025
Total word count - document A			63006
Total word count - document B			0
Total word count - documents A + B			63006

13/3,AB/13 (Item 13 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS

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01394688

PROCESS FOR PRODUCING PLANT-ORIGIN ANTIBACTERIAL SUBSTANCE

VERFAHREN ZUR HERSTELLUNG EINER AUS PFLANZEN STAMMENDEN, ANTIBAKTERIELLEN
SUBSTANZ

PROCEDE DE PRODUCTION D'UNE SUBSTANCE ANTIBACTERIENNE D'ORIGINE VEGETALE

PATENT ASSIGNEE:

SAKAI, Takuo, (315581), 4-13-6, Harayamadai, Sakai-shi Osaka 590-0132,
(JP), (Proprietor designated states: all)

INVENTOR:

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LEGAL REPRESENTATIVE:

Doireau, Marc (44325), Cabinet ORES, 36,rue de St Petersburg, 75008
Paris, (FR)

PATENT (CC, No, Kind, Date): EP 1209238 A1 020529 (Basic)

EP 1209238 B1 051019

WO 2001098519 011227

APPLICATION (CC, No, Date): EP 2001936956 010611; WO 2001JP4929 010611

PRIORITY (CC, No, Date): JP 2000189614 000623

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12P-001/00; A01N-065/00

ABSTRACT EP 1209238 A1

A process for producing an antibacterial substance which comprises
disintegrating at least a part of a plant tissue and releasing the
antibacterial substance therefrom; and antibacterial or bacteriostatic
compositions containing the antibacterial substance thus obtained as the
active ingredient. By using the above process and compositions, the
proliferation of spore-forming bacteria can be efficiently inhibited.

ABSTRACT WORD COUNT: 56

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200222	227
CLAIMS B	(English)	200542	197
CLAIMS B	(German)	200542	191
CLAIMS B	(French)	200542	218
SPEC A	(English)	200222	2848
SPEC B	(English)	200542	2994
Total word count - document A			3076
Total word count - document B			3600
Total word count - documents A + B			6676

13/3,AB/14 (Item 14 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01352431

Matrix protein compositions for inflammatory and infectious conditions

Matrixprotein enthaltende Zusammensetzungen für entzündliche und infektiöse
Zustände

Compositions protéiniques matricielles pour des conditions inflammatoires

et infectieuses

PATENT ASSIGNEE:

Biora Bioex AB, (1401681), Per Albin Hanssons Vag 41, 205 12 Malmo, (SE),
(Proprietor designated states: all)

INVENTOR:

Gestrelus, Stina, St. Sgridsgatan 5, 223 50 Lund, (SE)
Hammarstrom, Lars, Frejavagen 28, 182 64 Djursholm, (SE)
Lyngstadaas, Staele Peter, Haakons vei 5, 1450 Nesoddtangen, (NO)
Andersson, Christer, Vellinge 27:12, 235 91 Vellinge, (SE)
Slaby, Ivan, Ingenjorsgatan, 03,, 215 68 - Malmo, (SE)
Hammargren, Tomas, Sanekullavagen 18, 217 74 Malmo, (SE)

LEGAL REPRESENTATIVE:

Dahner, Christer et al (87303), Strom & Gulliksson IP AB, Box 7086, 103
87 Stockholm, (SE)

PATENT (CC, No, Kind, Date): EP 1153610 A1 011114 (Basic)
EP 1153610 B1 030820

APPLICATION (CC, No, Date): EP 2001201915 990226;

PRIORITY (CC, No, Date): DK 98270 980227; US 81551 P 980413; DK 981328
981016

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

RELATED PARENT NUMBER(S) - PN (AN):

EP 1059934 (EP 99903852)

INTERNATIONAL PATENT CLASS: A61K-038/39; A61P-031/00; A61P-029/00

ABSTRACT EP 1153610 A1

Active enamel substances may be used for the preparation of a
pharmaceutical or cosmetic composition for healing of a wound, improving
healing of a wound, soft tissue regeneration or repair, or for preventing
or treating infection or inflammation.

ABSTRACT WORD COUNT: 39

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200146	233
CLAIMS B	(English)	200334	233
CLAIMS B	(German)	200334	214
CLAIMS B	(French)	200334	249
SPEC A	(English)	200146	19381
SPEC B	(English)	200334	18864
Total word count - document A			19617
Total word count - document B			19560
Total word count - documents A + B			39177

13/3,AB/15 (Item 15 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01324561

Mammalian osteoregulins

Saugetier Osteoreguline

Osteoregulines mammiferes

PATENT ASSIGNEE:

Pfizer Products Inc., (2434221), Eastern Point Road, Groton, Connecticut

06340, (US), (Applicant designated States: all)

INVENTOR:

Brown, Thomas Aquinas, Pfizer Global Res. and Dev., Eastern Point Road,
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Groton, Connecticut 06340, (US)
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Groton, Connecticut 06340, (US)

LEGAL REPRESENTATIVE:

Hayles, James Richard et al (75142), Pfizer Limited, Patents Department,
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PATENT (CC, No, Kind, Date): EP 1130098 A2 010905 (Basic)
EP 1130098 A3 030910

APPLICATION (CC, No, Date): EP 2001301768 010227;

PRIORITY (CC, No, Date): US 185617 P 000229; US 234500 P 000922

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12N-015/12; C07K-014/47; A01K-067/027;
C12Q-001/68; G01N-033/68

ABSTRACT EP 1130098 A2

The invention features novel osteoregulin polypeptides, nucleic acid sequences which encode the polypeptides, vectors, antibodies, hosts which express heterologous osteoregulins, and animal cells and mammals with a targeted disruption of an osteoregulin gene. These osteoregulins play a role in regulating bone homeostasis, adiposity, and the calcification of atherosclerotic plaques. Accordingly, the invention also features screening assays to identify modulators of osteoregulin activity as well as methods of treating mammals for diseases or disorders associated with osteoregulin activity.

ABSTRACT WORD COUNT: 79

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200136	898
SPEC A	(English)	200136	28794
Total word count - document A			29692
Total word count - document B			0
Total word count - documents A + B			29692

13/3,AB/16 (Item 16 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01266016

GLOBULAR ASSEMBLY OF AMYLOID BETA PROTEIN AND USES THEREOF

GLOBULARER AUFBAU VOM AMYLOID-BETA- PROTEIN UND DEREN VERWENDUNGEN

ASSEMBLAGE DE PROTEINE AMYLOIDE B GLOBULAIRE ET SES UTILISATIONS

PATENT ASSIGNEE:

THE UNIVERSITY OF SOUTHERN CALIFORNIA, (446674), University Park, Los
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PATENT (CC, No, Kind, Date): EP 1200470 A2 020502 (Basic)
 EP 1200470 B1 041124
 WO 2001010900 010215

APPLICATION (CC, No, Date): EP 2000952571 000804; WO 2000US21458 000804

PRIORITY (CC, No, Date): US 369236 990804

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
 LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

RELATED DIVISIONAL NUMBER(S) - PN (AN):

(EP 2004027742)

INTERNATIONAL PATENT CLASS: C07K-014/47; G01N-033/68; A61K-038/04

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200448	2233
CLAIMS B	(German)	200448	2174
CLAIMS B	(French)	200448	2474
SPEC B	(English)	200448	21046
Total word count - document A			0
Total word count - document B			27927
Total word count - documents A + B			27927

13/3,AB/17 (Item 17 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01196162

Vaccine and antitoxin for treatment and prevention of C. difficile disease
 Impfstoff und Antitoxine zur Behandlung und Vorbeugung von C. Difficile
 Krankheiten

Vaccin et antitoxines pour le traitement et la prevention de maladies
 causees par C. difficile

PATENT ASSIGNEE:

OPHIDIAN PHARMACEUTICALS, INC., (1819051), 5445 East Cheryl Parkway,
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INVENTOR:

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 Firca, Joseph R., 123 Deerpath Drive, Vernon Hills, IL 60061, (US)
 Kink, John A., 110 Wolf Street, Madison, WI 53717, (US)

LEGAL REPRESENTATIVE:

09/393590

Glawe, Delfs, Moll & Partner (100691), Patentanwälte Rothenbaumchaussee
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PATENT (CC, No, Kind, Date): EP 1041149 A2 001004 (Basic)
EP 1041149 A3 010502
APPLICATION (CC, No, Date): EP 105371 951023;
PRIORITY (CC, No, Date): US 329154 941024; US 405496 950316; US 422711
950414; US 480604 950607
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
NL; PT; SE
EXTENDED DESIGNATED STATES: LT; LV; SI
RELATED PARENT NUMBER(S) - PN (AN):
EP 796326 (EP 95937626)
INTERNATIONAL PATENT CLASS: C12N-015/31; C12N-001/21; C07K-014/33;
C07K-016/12; C07K-001/22; A61K-038/16; A61K-039/08; C12R-1:145

ABSTRACT EP 1041149 A2

The present invention provides neutralizing antitoxin directed against C.difficile toxins. These antitoxins are produced in avian species using soluble recombinant C.difficile toxin proteins. The avian antitoxins are designed so as to be orally administrable in therapeutic amounts and may be in any form (i.e., as a solid or in aqueous solution). Solid forms of the antitoxin may comprise an enteric coating. These antitoxins are useful in the treatment of humans and other animals intoxicated with at least one bacterial toxin. The invention further provides vaccines capable of protecting a vaccinated recipient from the morbidity and mortality associated with C.difficile infection. These vaccines are useful for administration to humans and other animals at risk of exposure to C.difficile toxins.

ABSTRACT WORD COUNT: 119

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200040	869
SPEC A	(English)	200040	95603
Total word count - document A			96472
Total word count - document B			0
Total word count - documents A + B			96472

13/3,AB/18 (Item 18 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01172621

High-throughput screening of gene function using libraries for functional genomics applications

Effizientes Verfahren zum Auffinden von Genfunktionen mittels Bibliotheken zur funktionellen Genomanwendung

Procede de criblage a fort rendement de la fonction d'un gene en utilisant des bibliothèques pour analyses fonctionelles de genomes

PATENT ASSIGNEE:

Galapagos Genomics N.V., (3370130), Generaal de Wittelaan 11 A3, 2800 Mechelen, (BE), (Proprietor designated states: all)

INVENTOR:

Schouten, Govert, Da Costastraat 82, 2321 AR Leiden, (NL)
Vogels, Ronald, van Rietlaan 4, 3461 HW Linschoten, (NL)

Searcher : Shears 571-272-2528

09/393590

Bout, Abraham, Coymansstraat 24, 2751 AR Moerkapelle, (NL)
van Es, Helmuth, Bandholm 89, 2133 DJ Hoofddorp, (NL)

LEGAL REPRESENTATIVE:

Prins, Hendrik Willem et al (55081), Arnold & Siedsma, Advocaten en
Octrooigemachtigden, Sweelinckplein 1, 2517 GK Den Haag, (NL)

PATENT (CC, No, Kind, Date): EP 1022335 A1 000726 (Basic)
EP 1022335 B1 040331

APPLICATION (CC, No, Date): EP 99201866 990611;

PRIORITY (CC, No, Date): US 97239 980612

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: C12N-015/10; C12N-015/86; C12N-005/10

ABSTRACT EP 1022335 A1

Novel means and methods for their use are provided to determine the function of the product(s) of one or more sample nucleic acids. The sample nucleic acids are synthetic oligonucleotides, DNA, or cDNA and encode polypeptides, antisense nucleic acids or GSEs. The sample nucleic acids are expressed in a host by a vehicle to alter at least one phenotype of the host. The altered phenotype(s) is identified as a means to assign a biological function to the product(s) encoded by the sample nucleic acid(s).

ABSTRACT WORD COUNT: 85

NOTE:

Figure number on first page: 36II

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200030	973
CLAIMS B	(English)	200414	1273
CLAIMS B	(German)	200414	1157
CLAIMS B	(French)	200414	1330
SPEC A	(English)	200030	37684
SPEC B	(English)	200414	38916
Total word count - document A			38664
Total word count - document B			42676
Total word count - documents A + B			81340

13/3,AB/19 (Item 19 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01149591

STABLE LIQUID FORMULATIONS OF BOTULINUM TOXIN

STABILISIERTE FLUSSIGE ARZNEIZUBEREITUNGEN ENTHALTEND **BOTULINUM TOXIN**

FORMULATIONS LIQUIDES STABLES DE LA **TOXINE DE BOTULINUM**

PATENT ASSIGNEE:

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INVENTOR:

MOYER, Elizabeth, 435 Marin Avenue, Mill Valley, CA 94941, (US)

HIRTZER, Pamela, 291 Scenic Avenue, Piedmont, CA 94611, (US)

LEGAL REPRESENTATIVE:

Lee, Nicholas John et al (76842), Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ, (GB)

Searcher : Shears 571-272-2528

09/393590

PATENT (CC, No, Kind, Date): EP 1112082 A2 010704 (Basic)
EP 1112082 B1 020731
WO 200015245 000323
APPLICATION (CC, No, Date): EP 99945649 990909; WO 99US20912 990909
PRIORITY (CC, No, Date): US 99870 P 980911
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: A61K-038/16; A61K-047/02; A61K-047/12;
A61P-021/00

NOTE:

No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200231	671
CLAIMS B	(German)	200231	645
CLAIMS B	(French)	200231	771
SPEC B	(English)	200231	9547
Total word count - document A			0
Total word count - document B			11634
Total word count - documents A + B			11634

13/3,AB/20 (Item 20 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01134551

Anti-Fas Antibodies
Anti-Fas-Antikorper
Anticorps anti-Fas
PATENT ASSIGNEE:

Sankyo Company Limited, (204886), 5-1, Nihonbashi-Honcho 3-chome,
Chuo-ku, Tokyo 103-8426, (JP), (Applicant designated States: all)

INVENTOR:

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Shinagawa-ku, Tokyo 140-8710, (JP)

LEGAL REPRESENTATIVE:

Gibson, Christian John Robert et al (30951), MARKS & CLERK, 57/60
Lincoln's Inn Fields, London WC2A 3LS, (GB)

PATENT (CC, No, Kind, Date): EP 990663 A2 000405 (Basic)
EP 990663 A3 020417
APPLICATION (CC, No, Date): EP 99307711 990929;
PRIORITY (CC, No, Date): JP 98276881 980930; JP 98276882 980930
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: C07K-016/28; C12N-015/13; C12N-015/62;
C12N-015/70; C12N-001/21; A61K-039/395

Searcher : Shears 571-272-2528

ABSTRACT EP 990663 A2

Anti-Fas antibodies are cross-reactive with mouse and human Fas and are useful in the treatment of conditions attributable to abnormalities in the Fas/Fas ligand system.

ABSTRACT WORD COUNT: 26

NOTE:

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200014	1483
SPEC A	(English)	200014	58480
Total word count - document A			59963
Total word count - document B			0
Total word count - documents A + B			59963

13/3,AB/21 (Item 21 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01036583

METHODS OF USE AND COMPOSITIONS FOR BENZYLIDENE- AND CINNAMYLIDENE-ANABASEINES

BENZYLIDENE- UND CINNAMYLIDENE-ANABASEINE ALS NEURONALE NIKOTIN ALPHA-7 REZEPTORAGONISTEN

PROCEDES D'UTILISATION ET COMPOSITIONS DE BENZYLIDENE-ANABASINES ET CINNAMYLIDENE-ANABASINES

PATENT ASSIGNEE:

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 VAN HAAREN, Frans, 3807 N.W. 54th Way, Gainesville, FL 32653, (US)
 ZOLTEWICZ, John, A., 2330 N.W. 38th Street, Gainesville, FL 32605, (US)
 DEFIEBRE, Christopher, M., 7201 Mesa Verde Trail, Fort Worth, TX 76137, (US)

PAPKE, Roger, 2521 N.W. 63rd Terrace, Gainesville, FL 32606, (US)
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1045842 A2 001025 (Basic)
 EP 1045842 B1 030514
 WO 99010338 990304

APPLICATION (CC, No, Date): EP 98944579 980828; WO 98US17850 980828

PRIORITY (CC, No, Date): US 924008 970829

DESIGNATED STATES: DE; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: C07D-401/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200320	955
CLAIMS B	(German)	200320	926
CLAIMS B	(French)	200320	1101

Searcher : Shears 571-272-2528

09/393590

SPEC B (English) 200320 15552
Total word count - document A 0
Total word count - document B 18534
Total word count - documents A + B 18534

13/3,AB/22 (Item 22 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

01015139

Anti-fas antibodies
Antikörper gegen Fas
Anticorps contre Fas

PATENT ASSIGNEE:

Sankyo Company Limited, (204886), 5-1, Nihonbashi-Honcho 3-chome,
Chuo-ku, Tokyo 103-8426, (JP), (applicant designated states:
AT;BE;CH;DE;DK;ES;FI;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

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Ichikawa, Kimihisa, Sankyo Company Limited, 2-58, Hiromachi 1-chome,
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Ohtsuki, Masahiko, Sankyo Company Limited, 2-58, Hiromachi 1-chome,
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Takahashi, Tohru, Sankyo Company Limited, 2-58, Hiromachi 1-chome,
Shinagawa-ku, Tokyo 140, (JP)
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Shinagawa-ku, Tokyo 140, (JP)
Shiraishi, Akio, Sankyo Company Limited, 2-58, Hiromachi 1-chome,
Shinagawa-ku, Tokyo 140, (JP)
Yonehara, Shin, 9-5, Matsuido-cho, Nishikyo-ku, Kyoto-shi, Kyoto-fu,
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LEGAL REPRESENTATIVE:

Gibson, Christian John Robert (30951), MARKS & CLERK, 57/60 Lincoln's Inn
Fields, London WC2A 3LS, (GB)
PATENT (CC, No, Kind, Date): EP 909816 A1 990421 (Basic)
APPLICATION (CC, No, Date): EP 98302575 980401;
PRIORITY (CC, No, Date): JP 9782953 970401; JP 97169088 970625; JP 97276064
971008
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: C12N-015/13; C07K-016/28; C07K-014/705;
C07K-016/46; C12N-015/62; C12N-015/70; C12N-001/21; A61K-039/395;
C12N-005/20; C12N-015/06;

ABSTRACT EP 909816 A1

Anti-human Fas antibodies which are cross-reactive with mouse and human
Fas are useful in the treatment of conditions attributable to
abnormalities in the Fas/Fas ligand system.
ABSTRACT WORD COUNT: 27

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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Searcher	:	Shears	571-272-2528
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09/393590

CLAIMS A	(English)	9916	1824
SPEC A	(English)	9916	43101
Total word count	- document A		44925
Total word count	- document B		0
Total word count	- documents A + B		44925

13/3,AB/23 (Item 23 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00967757

3-PYRIDYL ENANTIOMERS AND THEIR USE AS ANALGESICS
3-PYRIDYLENANTIOMERE UND IHRE VERWENDUNG ALS ANALGETIKA
ENANTIOMERES 3-PYRIDYL ET LEUR UTILISATION COMME ANALGESIQUES
PATENT ASSIGNEE:

Abbott Laboratories, (225075), Chad 0377/AP6D-2, 100 Abbott Park Road,
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all)

INVENTOR:

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LYNCH, John, K., 8736 44th Avenue, Kenosha, WI 53142, (US)
OR, Yat, Sun, 1107 Wellington Avenue, Libertyville, IL 60048, (US)
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WASICAK, James, T., 28440 Dorie Lane, Waterford, WI 53285, (US)
EHRlich, Paul, P., 1313 Bull Creek Drive, Libertyville, IL 60048, (US)

LEGAL REPRESENTATIVE:

Modiano, Guido, Dr.-Ing. et al (40786), Modiano, Josif, Pisanty & Staub,
Baaderstrasse 3, 80469 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 950057 A1 991020 (Basic)
EP 950057 B1 021113
WO 98025920 980618

APPLICATION (CC, No, Date): EP 97952392 971210; WO 97US22811 971210

PRIORITY (CC, No, Date): US 763278 961210; US 32321 P 961210

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
NL; PT; SE

EXTENDED DESIGNATED STATES: RO; SI

INTERNATIONAL PATENT CLASS: C07D-401/12; A61K-031/44; C07D-205/04

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200246	2572
CLAIMS B	(German)	200246	2611
CLAIMS B	(French)	200246	2808
SPEC B	(English)	200246	47623
Total word count	- document A		0
Total word count	- document B		55614
Total word count	- documents A + B		55614

13/3,AB/24 (Item 24 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

Searcher : Shears 571-272-2528

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00933023

MEDICINES COMPRISING Rho KINASE INHIBITOR

MEDIKAMENTE ENTHALTEND Rho-KINASE INHIBITOREN

MEDICAMENTS COMPRENANT UN INHIBITEUR DE LA Rho KINASE

PATENT ASSIGNEE:

YOSHITOMI PHARMACEUTICAL INDUSTRIES, LTD., (208562), 6-9, Hiranomachi
2-chome Chuo-ku, Osaka-shi Osaka 541, (JP), (Applicant designated
States: all)

INVENTOR:

UEHATA, Masayoshi, Yoshitomi Phar. Ind. Ltd., Res. Lab., 7-25, Koyata
3-chome, Iruma-shi, Saitama 358, (JP)

ONO, Takashi, Yoshitomi Pharm. Ind., Ltd, Res. Lab., 7-25, Koyata 3-chome
, Iruma-shi, Saitam 358, (JP)

SATOH, Hiroyuki, Yoshitomi Phar. Ind. Ltd., Res. Lab., 955, Oaza-Koiwai,
Yoshitomimachi, Chikujo-gun, Fukuoka 871, (JP)

YAMAGAMI, Keiji, Yoshitomi Phar. Ind. Ltd., Res. Lab., 7-25, Koyata
3-chome, Iruma-shi, Saitama 358, (JP)

KAWAHARA, Toshio, Yoshitomi Phar. Ind. Ltd., Res. Lab., 955, Oaza-Koiwai,
Yoshitomimachi, Chikujo-gun, Fukuoka 871, (JP)

LEGAL REPRESENTATIVE:

Weber, Thomas, Dr.Dipl.-Chem. et al (75092), Patentanwälte von
Kreisler-Selting-Werner, Postfach 10 22 41, 50462 Köln, (DE)

PATENT (CC, No, Kind, Date): EP 956865 A1 991117 (Basic)

WO 9806433 980219

APPLICATION (CC, No, Date): EP 97934756 970808; WO 97JP2793 970808

PRIORITY (CC, No, Date): JP 96212409 960812

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU;
MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; RO; SI

INTERNATIONAL PATENT CLASS: A61K-045/00; A61K-031/16; A61K-031/165;
A61K-031/195; A61K-049/00; A61K-031/445; A61K-031/50; A61K-031/495;
A61K-031/44; C07D-213/81; C07D-401/12

ABSTRACT EP 956865 A1

A Rho kinase inhibitor is provided as a novel pharmaceutical agent, particularly as a therapeutic agent of hypertension, a therapeutic agent of angina pectoris, a suppressive agent of cerebrovascular contraction, a therapeutic agent of asthma, a therapeutic agent of peripheral circulation disorder, a prophylactic agent of immature birth, a therapeutic agent of arteriosclerosis, an anti-cancer drug, an anti-inflammatory agent, an immunosuppressant, a therapeutic agent of autoimmune disease, an anti-AIDS drug, a contraceptive, a prophylactic agent of digestive tract infection, a therapeutic agent of osteoporosis, a therapeutic agent of retinopathy and a brain function improving drug. In addition, the Rho kinase inhibitor is provided as a reagent and a diagnostic.

ABSTRACT WORD COUNT: 110

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9946	1777
SPEC A	(English)	9946	13010
Total word count - document A			14787
Total word count - document B			0
Total word count - documents A + B			14787

13/3,AB/25 (Item 25 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2005 European Patent Office. All rts. reserv.

00748301

ANTI-INFLAMMATORY COMPOUNDS
 ANTIINFLAMMATORISCHE VERBINDUNGEN
 COMPOSES ANTI-INFLAMMATOIRES
 PATENT ASSIGNEE:

SMITHKLINE BEECHAM CORPORATION, (201246), One Franklin Plaza,
 Philadelphia, PA 19102, (US), (Proprietor designated states: all)

INVENTOR:

ADAMS, Jerry Leroy, 611 Forest Road, Wayne, PA 19087, (US)
 HALL, Ralph Floyd, 1311 Prospect Hill Road, Villanova, PA 19085, (US)
 LEE, Dennis, Apartment 502 700 Ardmore Road, Ardmore, PA 19003, (US)
 MAYER, Ruth Judik, 115 Reveille Road, Wayne, PA 19087, (US)
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LEGAL REPRESENTATIVE:

Connell, Anthony Christopher et al (69941), SmithKline Beecham plc
 Corporate Intellectual Property, Two New Horizons Court, Brentford,
 Middlesex TW8 9EP, (GB)

PATENT (CC, No, Kind, Date): EP 799198 A1 971008 (Basic)
 EP 799198 A1 971015
 EP 799198 B1 000830
 WO 9533461 951214

APPLICATION (CC, No, Date): EP 95922184 950602; WO 95US7010 950602

PRIORITY (CC, No, Date): US 252717 940602

DESIGNATED STATES: BE; CH; DE; FR; GB; IT; LI; NL

INTERNATIONAL PATENT CLASS: C07C-311/21; A61K-031/195; C07C-311/13

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200035	437
CLAIMS B	(German)	200035	394
CLAIMS B	(French)	200035	519
SPEC B	(English)	200035	13765
Total word count - document A			0
Total word count - document B			15115
Total word count - documents A + B			15115

13/3,AB/26 (Item 26 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2005 European Patent Office. All rts. reserv.

00746719

ANTI-INFLAMMATORY COMPOUNDS
 ENTZUNDUNGSHEMMENDE VERBINDUNGEN
 COMPOSES ANTI-INFLAMMATOIRES
 PATENT ASSIGNEE:

SMITHKLINE BEECHAM CORPORATION, (201245), UW2220, 709 Swedeland Road,
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DIXON, James, Scott, SmithKline Beecham, Pharmaceu, ticals R & D, 709
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 CHILTON, Floyd, H., Wake Forest University, Medical Center Blvd., Winston
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 MAYER, Ruth, Judik, SmithKline Beecham Pharmaceuti, cals R & D, 709
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 WINKLER, James, David, SmithKline Beecham Pharmace, uticals R & D, 709
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LEGAL REPRESENTATIVE:

Connell, Anthony Christopher et al (69941), SmithKline Beecham plc
 Corporate Intellectual Property, Two New Horizons Court, Brentford,
 Middlesex TW8 9EP, (GB)

PATENT (CC, No, Kind, Date): EP 765305 A1 970402 (Basic)
 EP 765305 A1 970903
 EP 765305 B1 991215
 WO 9533712 951214

APPLICATION (CC, No, Date): EP 95922898 950602; WO 95US6677 950602

PRIORITY (CC, No, Date): US 252716 940602

DESIGNATED STATES: BE; CH; DE; FR; GB; IT; LI; NL

INTERNATIONAL PATENT CLASS: C07C-301/02; A61K-031/21

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9950	623
CLAIMS B	(German)	9950	617
CLAIMS B	(French)	9950	777
SPEC B	(English)	9950	11322
Total word count - document A			0
Total word count - document B			13339
Total word count - documents A + B			13339

13/3,AB/27 (Item 27 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2005 European Patent Office. All rts. reserv.

00702636

Protein having TPO activity.

Protein mit TPO-Aktivitat.

Proteine a activite TPO.

PATENT ASSIGNEE:

Kirin Brewery Company, Ltd., (789432), 10-1, 2-chome, Shinkawa, Chuo-ku,
 Tokyo, (JP), (applicant designated states:
 AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

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 Kato, Takashi, 819-8 Shimonojo-machi Takasaki-shi, Gunma-ken, (JP)
 Ohgami, Kinya, B-102 Shikishima-Ryo 2-37-16 Kami-Koide-machi,
 Maebashi-shi Gunma-ken, (JP)
 Iwamatsu, Akihiro, Belvedere A201 6-20-42 Tomiokahigashi, Kanazawa-ku
 Yokohama-shi Kanagawa-ken, (JP)
 Akahori, Hiromichi, 3439-78-2 Ishihara-machi Takasaki-shi, Gunma-ken,
 (JP)

Kuroki, Ryota, 13-20-2, Noukendai 5-chome Kanazawa-ku, Yokohama.shi, (JP)
 Shimizu, Toshiyuki, 35-6-101, Noukendai 6-chome Kanazawa-ku, Yokohama-shi
 Kanagawa-ken, (JP)
 Muto, Takanori, Kanazawahakkei-Ryo 102 2-8-4 Teramae, Kanazawa-ku
 Yokohama-shi Kanagawa-ken, (JP)

LEGAL REPRESENTATIVE:

UEXKULL & STOLBERG Patentanwalte (100011), Beselerstrasse 4, D-22607
 Hamburg, (DE)

PATENT (CC, No, Kind, Date): EP 668352 A1 950823 (Basic)

APPLICATION (CC, No, Date): EP 95200385 950214;

PRIORITY (CC, No, Date): JP 9439090 940214; JP 9479842 940325; JP 94155126
 940601; JP 94167328 940615; JP 94227159 940817; JP 94304167 941101; JP
 94341200 941228; JP 94193169 940817; JP 94298669 941201; JP 94193916
 940818; US 212164 940314; US 221020 940401; US 278083 940720; US 320300
 941011; US 361811 941222; US 381478 950131

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
 NL; PT; SE

INTERNATIONAL PATENT CLASS: C12N-015/19

ABSTRACT EP 668352 A1

The present invention relates to thrombopoietin (TPO) polypeptides having the biological activity of specifically stimulating or increasing platelet production comprising the amino acid sequence 1-332 of SEQ ID NO: 6 or a derivative thereof, DNA molecules encoding TPO polypeptides, processes for production of the polypeptides, antibodies specifically immunoreactive with the polypeptides, pharmaceutical compositions comprising the polypeptides, and methods for using the polypeptides in treatment of platelet disorders such as thrombocytopenia. (see image in original document)

ABSTRACT WORD COUNT: 77

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB95	1234
SPEC A	(English)	EPAB95	73519
Total word count - document A			74753
Total word count - document B			0
Total word count - documents A + B			74753

13/3,AB/28 (Item 28 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2005 European Patent Office. All rts. reserv.

00637707

MONOCLONAL ANTIBODIES DIRECTED AGAINST THE MICROTUBULE-ASSOCIATED PROTEIN
 TAU, HYBRIDOMAS SECRETING THESE ANTIBODIES, ANTIGEN RECOGNITION BY
 THESE MONOCLONAL AN

MONOKLONALE ANTIKORPER GEGEN DAS MIKROTUBULUSASSOZIIERTE
 TAUPROTEIN, HYBRIDOMEN, DIE DIESE ANTIKORPER SEZERNIEREN,
 ANTIGENERKENNUNG DURCH DIESE MONOKLONALEN ANTI
 ANTICORPS MONOCLONAUX DIRIGES CONTRE LA PROTEINE TAU ASSOCIEE AUX
 MICROTUBULES, HYBRIDOMES SECRETANT CES ANTICORPS, RECONNAISSANCE
 D'ANTIGENES PAR CES ANTICORPS

PATENT ASSIGNEE:

N.V. INNOGENETICS S.A., (713141), Industriepark Zwijnaarde 7, Box 4, 9052
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 AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE)

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 VANMECHELEN, Eugene, Ten Edestraat 101, B-9810 Nazareth-Eke, (BE)
 VAN DE VOORDE, Andre, Groenstraat 22, B-9160 Lokeren, (BE)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 673418 A1 950927 (Basic)
 EP 673418 B1 980506
 WO 9413795 940623

APPLICATION (CC, No, Date): EP 94903752 931210; WO 93EP3499 931210

PRIORITY (CC, No, Date): EP 92403403 921214

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
 NL; PT; SE

INTERNATIONAL PATENT CLASS: C12N-015/06; C12P-021/08; C12N-005/20;

C07K-016/18; C07K-014/47; G01N-033/577; G01N-033/68;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9819	1242
CLAIMS B	(German)	9819	1225
CLAIMS B	(French)	9819	1342
SPEC B	(English)	9819	8015

Total word count - document A 0

Total word count - document B 11824

Total word count - documents A + B 11824

13/3,AB/29 (Item 29 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00625833

MONOCLONAL ANTIBODIES DIRECTED AGAINST THE MICROTUBULE-ASSOCIATED PROTEIN
 TAU

Monoklonale Antikörper gegen das mikrotubulusassoziierte Protein Tau.

ANTICORPS MONOCLONAUX DIRIGES CONTRE LA PROTEINE TAU ASSOCIEE AUX
 MICROTUBULES

PATENT ASSIGNEE:

N.V. INNOGENETICS S.A., (713141), Industriepark Zwijnaarde 7, Box 4, 9052
 Gent, (BE), (applicant designated states:

AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;SE)

INVENTOR:

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 VANDERMEEREN, Marc, Armand Preud'Homme Straat 10, B-2440 Geel, (BE)
 VANMECHELEN, Eugene, Ten Edestraat 101, B-9810 Nazareth-Eke, (BE)
 VAN DE VOORDE, Andre, Groenstraat 22, B-9160 Lokeren, (BE)

LEGAL REPRESENTATIVE:

Gutmann, Ernest et al (15992), Ernest Gutmann - Yves Plasseraud S.A. 3,
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PATENT (CC, No, Kind, Date): EP 610330 A1 940817 (Basic)
 EP 610330 B1 970618
 WO 9308302 930429

APPLICATION (CC, No, Date): EP 92922432 921017; WO 92EP2392 921017

PRIORITY (CC, No, Date): EP 91402871 911025

09/393590

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
NL; SE

INTERNATIONAL PATENT CLASS: C12P-021/08; C12N-005/20; C07K-002/00;
C12N-015/06; G01N-033/577;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	1415
CLAIMS B	(German)	EPAB97	1414
CLAIMS B	(French)	EPAB97	1490
SPEC B	(English)	EPAB97	8084
Total word count - document A			0
Total word count - document B			12403
Total word count - documents A + B			12403

13/3,AB/30 (Item 30 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00612002

IMMUNOTOXINS DIRECTED AGAINST c-erbB-2 (HER-2/neu) RELATED SURFACE ANTIGENS
GEGEN C-ERB B-2 (HER-2/NEU) VEWANDTE OBERFLACHENANTIGENE GERICHTETE
IMMUNTOXINE

IMMUNOTOXINES DIRIGEES CONTRE DES ANTIGENES DE SURFACE APPARENTEES A
c-erbB-2 (HER-2/neu)

PATENT ASSIGNEE:

RESEARCH DEVELOPMENT FOUNDATION, (1119572), 402 North Division Street,
Carson City, Nevada 89703, (US), (Proprietor designated states: all)

INVENTOR:

ROSENBLUM, Michael G., 8810 North Rylander Circle, Houston, TX 77071,
(US)

SHAWVER, Laura K., 216 Cotter street, San Fransisco, CA 94112-1933, (US)

LEGAL REPRESENTATIVE:

Wilkinson, Stephen John et al (52061), Stevens, Hewlett & Perkins 1 St.
Augustine's Place, Bristol BS1 4UD, (GB)

PATENT (CC, No, Kind, Date): EP 635030 A1 950125 (Basic)
EP 635030 A1 980708
EP 635030 B1 040721
WO 1993021232 931028

APPLICATION (CC, No, Date): EP 93912147 930408; WO 93US3292 930408

PRIORITY (CC, No, Date): US 867728 920410

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
NL; PT; SE

INTERNATIONAL PATENT CLASS: C07K-014/415; A61K-039/395; A61K-047/48

NOTE:

No A-document published by EPO

Figure number on first page: NONE

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200430	564
CLAIMS B	(German)	200430	552
CLAIMS B	(French)	200430	599
SPEC B	(English)	200430	10676
Total word count - document A			0
Total word count - document B			12391

Searcher : Shears 571-272-2528

Total word count - documents A + B 12391

13/3,AB/31 (Item 31 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00601361

Pharmaceutical compositions containing **botulinum toxin** and
 method of preparation.
 Pharmazeutische Zusammensetzungen, die Botulinumtoxin enthalten und
 Verfahren zur Herstellung.
 Compositions pharmaceutiques contenant la **toxine de botulinum**
 et procede de preparation.

PATENT ASSIGNEE:

WISCONSIN ALUMNI RESEARCH FOUNDATION, (319666), P.O. Box 7365, Madison,
 WI 53705-7365, (US), (applicant designated states:
 AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

INVENTOR:

Schantz, Edward J., 5102 South Hill Drive, Madison WI 53705, (US)
 Goodnough, Michael C., 6914 Harvest Hill Road, Madison WI 53717, (US)
 Johnson, Eric A., 3901 Council Court, Madison WI 53711, (US)

LEGAL REPRESENTATIVE:

Ellis-Jones, Patrick George Armine (30442), J.A. KEMP & CO. 14 South
 Square Gray's Inn, London WC1R 5LX, (GB)

PATENT (CC, No, Kind, Date): EP 593176 A2 940420 (Basic)
 EP 593176 A3 950301

APPLICATION (CC, No, Date): EP 93307656 930928;

PRIORITY (CC, No, Date): US 951604 920928

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;
 NL; PT; SE

INTERNATIONAL PATENT CLASS: A61K-039/08;

ABSTRACT EP 593176 A2

A pharmaceutical composition contains active lyophilized
botulinum toxin type **A**, no **sodium chloride**
 and less than about 25 % inactive toxin is disclosed along with a method
 of preparing it.

ABSTRACT WORD COUNT: 32

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF2	190
SPEC A	(English)	EPABF2	1928
Total word count - document A			2118
Total word count - document B			0
Total word count - documents A + B			2118

13/3,AB/32 (Item 32 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
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00577652

COMPOSITIONS AND METHODS FOR IDENTIFYING BIOLOGICALLY ACTIVE MOLECULES
 ZUSAMMENSETZUNGEN UND VERFAHREN ZUR IDENTIFIZIERUNG VON MOLEKULEN MIT
 BIOLOGISCHER WIRKSAMKEIT
 COMPOSITIONS ET PROCEDES D'IDENTIFICATION DE MOLECULES BIOLOGIQUEMENT

ACTIVES

PATENT ASSIGNEE:

CHIRON CORPORATION, (572535), 4560 Horton Street, Emeryville, California
94608-2916, (US), (applicant designated states:
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

DEVLIN, James, J., 1146 Upper Happy Valley, Lafayette, CA 94549, (US)

LEGAL REPRESENTATIVE:

Hallybone, Huw George et al (53031), CARPMAELS AND RANSFORD 43 Bloomsbury
Square, London WC1A 2RA, (GB)

PATENT (CC, No, Kind, Date): EP 600866 A1 940615 (Basic)
EP 600866 B1 971203
WO 9118980 911212

APPLICATION (CC, No, Date): EP 91910915 910513; WO 91US3332 910513

PRIORITY (CC, No, Date): US 533180 900601

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: C12N-015/10; C12N-015/62; C12N-015/34;

C12N-015/70; C12N-015/00; C07K-007/06

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9711W4	302
CLAIMS B	(German)	9711W4	239
CLAIMS B	(French)	9711W4	350
SPEC B	(English)	9711W4	7112
Total word count - document A			0
Total word count - document B			8003
Total word count - documents A + B			8003

13/3,AB/33 (Item 33 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00558043

GENETICALLY ENGINEERED VACCINE STRAIN

GENTECHNOLOGISCH HERGESTELLTER STAMM FUR IMPFSTOFFE

SOUCHE DE VACCIN MISE AU POINT PAR GENIE GENETIQUE

PATENT ASSIGNEE:

VIROGENETICS CORPORATION, (1534420), 465 Jordan Road, Rensselaer
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all)

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 LEGAL REPRESENTATIVE:
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 London EC4A 1DA, (GB)
 PATENT (CC, No, Kind, Date): EP 575491 A1 931229 (Basic)
 EP 575491 A1 941012
 EP 575491 B1 030813
 WO 92015672 920917
 APPLICATION (CC, No, Date): EP 92908110 920309; WO 92US1906 920309
 PRIORITY (CC, No, Date): US 666056 910307; US 713967 910611; US 847951
 920306
 DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; MC; NL;
 SE
 RELATED DIVISIONAL NUMBER(S) - PN (AN):
 (EP 2003018214)
 INTERNATIONAL PATENT CLASS: C12N-007/00; A61K-039/12; C12N-015/863
 NOTE:

No A-document published by EPO
 LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200333	453
CLAIMS B	(German)	200333	389
CLAIMS B	(French)	200333	595
SPEC B	(English)	200333	100952
Total word count - document A			0
Total word count - document B			102389
Total word count - documents A + B			102389

13/3,AB/34 (Item 34 from file: 348)
 DIALOG(R)File 348:EUROPEAN PATENTS
 (c) 2005 European Patent Office. All rts. reserv.

00499265

A NEW METHOD FOR DETECTING A SPECIFIC NUCLEIC ACID SEQUENCE IN A SAMPLE OF
 CELLS

NEUES VERFAHREN ZUM NACHWEIS EINER SPEZIFISCHEN NUKLEINSAURESEQUENZ IN
 EINER ZELLPROBE

NOUVELLE METHODE PERMETTANT DE DETECTER UNE SEQUENCE D'ACIDE NUCLEIQUE
 SPECIFIQUE A PARTIR D'UN PRELEVEMENT DE CELLULES

PATENT ASSIGNEE:

Pharmacia Biotech AB, (1345733), , 751 82 Uppsala, (SE), (applicant
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LEGAL REPRESENTATIVE:

Widen, Bjorn et al (39502), Pharmacia & Upjohn AB, Patent Department, 751
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PATENT (CC, No, Kind, Date): EP 504278 A1 920923 (Basic)
 EP 504278 A1 930609
 EP 504278 B1 970115
 WO 9108308 910613

APPLICATION (CC, No, Date): EP 91901361 901129; WO 90US6953 901129
 PRIORITY (CC, No, Date): US 443910 891130; US 505833 900406; US 548027
 900705

09/393590

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: C12Q-001/68; C12Q-001/70; C12N-015/11;
C12N-005/10;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	798
CLAIMS B	(German)	EPAB97	703
CLAIMS B	(French)	EPAB97	879
SPEC B	(English)	EPAB97	11640
Total word count - document A			0
Total word count - document B			14020
Total word count - documents A + B			14020

13/3,AB/35 (Item 35 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00498736

ANTIVENOMS AND METHODS FOR MAKING ANTIVENOMS
GEGENGIFTE UND VERFAHREN ZU DEREN HERSTELLUNG
SERUMS ANTIVENIMEUX ET LEURS PROCEDES DE FABRICATION
PATENT ASSIGNEE:

CARROLL, Sean B., (1373820), 3066 Streb Way, Cottage Grove, WI 53527,
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AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 498854 A1 920819 (Basic)
EP 498854 A1 930303
EP 498854 B1 980826
WO 9106306 910516

APPLICATION (CC, No, Date): EP 91900530 901031; WO 90US6341 901031

PRIORITY (CC, No, Date): US 429791 891031

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: A61K-035/16; A61K-039/395; C07K-001/00;
C07K-017/08; C07K-002/00; G01N-033/538; C08G-063/48;

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9835	3496
CLAIMS B	(German)	9835	3591
CLAIMS B	(French)	9835	3977
SPEC B	(English)	9835	31700
Total word count - document A			0
Total word count - document B			42764
Total word count - documents A + B			42764

13/3,AB/36 (Item 36 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

Searcher : Shears 571-272-2528

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00459428

Human monoclonal antibodies against bacterial toxins.
Menschliche monoklonale Antikörper gegen bakterielle Toxine.
Anticorps monoclonaux humains contre des toxines bactériennes.

PATENT ASSIGNEE:

THE UNIVERSITY OF ROCHESTER, (290260), 601 Elmwood Avenue, Rochester, New York 14642, (US), (applicant designated states: AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

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LEGAL REPRESENTATIVE:

Warcoin, Jacques et al (19071), Cabinet Regimbeau 26, avenue Kleber, F-75116 Paris, (FR)

PATENT (CC, No, Kind, Date): EP 440266 A2 910807 (Basic)
EP 440266 A3 910828

APPLICATION (CC, No, Date): EP 91105163 830929;

PRIORITY (CC, No, Date): US 428747 820930

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE

RELATED PARENT NUMBER(S) - PN (AN):

EP 105804

INTERNATIONAL PATENT CLASS: C12N-015/08; C12N-005/28; C12P-021/08;
A61K-039/40;

ABSTRACT EP 440266 A2

The production of stable hybrid cell lines that secrete human monoclonal antibodies against bacterial toxins by fusing post-immunization human peripheral blood lymphocytes with nonsecretor mouse myeloma cells is described. Using the method, protective monoclonal antibodies against tetanus toxin and diphtheria toxin were produced that bind tetanus toxin and diphtheria toxin in vitro, respectively, and prevent tetanus and diphtheria in vivo in animals, respectively.

ABSTRACT WORD COUNT: 65

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1133
SPEC A	(English)	EPABF1	10206
Total word count - document A			11339
Total word count - document B			0
Total word count - documents A + B			11339

13/3,AB/37 (Item 37 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00338241

Chemically regulatable DNA sequences and genes and uses thereof.
Chemisch regulierte Sequenzen und Gene, und ihre Verwendungen.
Sequences d'ADN et genes chimiquement regulables, et leur emploi.

PATENT ASSIGNEE:

CIBA-GEIGY AG, (201300), Klybeckstrasse 141, CH-4002 Basel, (CH),
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 PATENT (CC, No, Kind, Date): EP 332104 A2 890913 (Basic)
 EP 332104 A3 910320

APPLICATION (CC, No, Date): EP 89103888 890306;
 PRIORITY (CC, No, Date): US 165667 880308; US 305566 890206
 DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE
 INTERNATIONAL PATENT CLASS: C12N-015/00;

ABSTRACT EP 332104 A2

The present invention provides chemically regulatable DNA sequences capable of regulating transcription of an associated DNA sequence in plants or plant tissues, chimeric constructions containing such sequences, vectors containing such sequences and chimeric constructions, and transgenic plants and plant tissues containing these chimeric constructions. Also provided are a novel signal peptide sequence, genes which code for this sequence, and newly identified PR protein genes. The chimeric constructions and transgenic plants and plant tissues may be used in an assay for new chemical regulators.

ABSTRACT WORD COUNT: 87

LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	3526
SPEC A	(English)	EPABF1	33592
Total word count - document A			37118
Total word count - document B			0
Total word count - documents A + B			37118

13/3,AB/38 (Item 38 from file: 348)
 DIALOG(R) File 348:EUROPEAN PATENTS
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00273288

Pharmaceutically active compounds.
 Pharmazeutische aktive Verbindungen.
 Composes pharmaceutiques actifs.

PATENT ASSIGNEE:

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 AT;BE;CH;DE;ES;FR;GB;GR;IT;LI;LU;NL;SE)

INVENTOR:

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 Versace, Richard William, 65B Townsend Road, Wanaque, N.J. 07465, (US)

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09/393590

PATENT (CC, No, Kind, Date): EP 274867 A2 880720 (Basic)
EP 274867 A3 901114
EP 274867 B1 940413
APPLICATION (CC, No, Date): EP 87310807 871209;
PRIORITY (CC, No, Date): US 940125 861210
DESIGNATED STATES: AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: C07D-233/60; A61K-031/415; C07D-277/36;
C07D-257/04; C07D-213/70; C07D-257/06; C07D-213/30; C07D-239/54;
C07D-233/70; C07D-233/94; C07D-235/06;

ABSTRACT EP 274867 A2

The disclosed invention is compounds represented by the formula (see image in original document) and pharmaceutically acceptable acid addition, basic addition and quarternary amine salts thereof and pharmaceutically acceptable solvates thereof, wherein

each Z is independently tetiary butyl, phenyl, naphthyl or adamantyl; substituted phenyl, wherein the substituents are one or more of halogen, lower alkoxy, phenoxy, nitrile, nitro, phenylsulfonyl, loweralkylsulfonyl, oxazol-2-yl, lower alkanoyl, benzoyl, lower alkoxy carbonyl, lower alkyl, lower alkylthio, phenyl, phenylaminothiocarbonyl, or lower alkylaminothiocarbonyl; 4 or 6 membered unsubstituted or substituted heterocyclic ring containing at least one nitrogen with the remaining members of the ring being at least one carbon, and optionally sulfur or oxygen, wherein the substituents are one or more of carboxyl, hydroxymethyl, lower alkyl, loweralkylcarbonyl or aryl lower alkyl;

X and Y are each independently a bond, -O-, (see image in original document) each Q is independently a divalent substituted or unsubstituted, straigh or branched chain lower alkanediyl, lower alkanediyl-cycloalkaneidyl-lower alkanediyl, lower alkenediyl, lower alkynediyl, phenylene, dihydrofurandiyl, tetrahydrofurandiyl, tetrahydropyrandiyl, or, loweralkanediyl-tetrahydrofurandiyl-loweralkanediyl, wherein the substituents are one or more of hydroxy, epoxy, fluorine, chlorine, azide, or amino;

W is a monovalent substituted or unsubstituted aryl group or a heterocyclic single or fused ring containing from 4 to 10 ring atoms, at least one hetero atom of which is a nitrogen atom and the remaining ring atoms being at least one carbon and optionally sulfur or oxygen, wherein the substituents are one or more of hydroxy, oxo amino, carbamoyl, carboxyl, nitrile, nitro, lower alkoxy carbonyl, halogen, sulfamyl, lower alkyl, lower alkylthio, lower alkoxy, hydroxyloweralkyl, lower alkoxy carbonyl loweralkyl, amino loweralkyl, carboxyloweralkyl, guanidino, thioureido, lower alkylsulfonylamino, aminocarbonyl loweralkyl, allyloxycarbonylmethyl or carbamoyloxy loweralkyl; with the proviso that W cannot be substituted or unsubstituted isoxazolyl, and

W(') is divalent W.

The compounds have antiviral activity, antiinflammatory activity and are PAF inhibitors.

ABSTRACT WORD COUNT: 303

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	2124
CLAIMS B	(German)	EPBBF1	1950
CLAIMS B	(French)	EPBBF1	2249
SPEC B	(English)	EPBBF1	6876
Total word count - document A			0

Searcher : Shears 571-272-2528

09/393590

Total word count - document B 13199
Total word count - documents A + B 13199

13/3,AB/39 (Item 39 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00113752

Human monoclonal antibodies against bacterial toxins.
Menschliche monoklonale Antikörper gegen bakterielle Toxine.
Anticorps monoclonaux humains contre des toxines bactériennes.
PATENT ASSIGNEE:

THE UNIVERSITY OF ROCHESTER, (290260), 601 Elmwood Avenue, Rochester, New
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AT;BE;CH;DE;FR;GB;IT;LI;LU;NL;SE)

INVENTOR:

Insel, Richard Alan, 167 Oakdale Drive, Rochester New York 14618, (US)
Gigliotti, Francis, 25 N. Alicia Drive, Memphis Tennessee 38112, (US)

LEGAL REPRESENTATIVE:

Martin, Jean-Jacques et al (17181), Cabinet REGIMBEAU 26, Avenue Kleber,
F-75116 Paris, (FR)

PATENT (CC, No, Kind, Date): EP 105804 A2 840418 (Basic)
EP 105804 A3 860813
EP 105804 B1 911211

APPLICATION (CC, No, Date): EP 83401913 830929;

PRIORITY (CC, No, Date): US 428747 820930

DESIGNATED STATES: AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: C12P-021/08;

ABSTRACT EP 105804 A2

Human monoclonal antibodies against bacterial toxins.

The production of stable hybrid cell lines that secrete human
monoclonal antibodies against bacterial toxins by fusing
post-immunization human peripheral blood lymphocytes with nonsecretor
mouse myeloma cells is described. Using the method, protective monoclonal
antibodies against tetanus toxin and diphtheria toxin were produced that
bind tetanus toxin and diphtheria toxin in vitro, respectively, and
prevent tetanus and diphtheria in vivo in animals, respectively.

ABSTRACT WORD COUNT: 71

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	162
CLAIMS B	(German)	EPBBF1	167
CLAIMS B	(French)	EPBBF1	178
SPEC B	(English)	EPBBF1	10188
Total word count - document A			0
Total word count - document B			10695
Total word count - documents A + B			10695

Set	Items	Description
S14	173	AU=(MOYER, E? OR MOYER E?)
S15	7	AU=(HIRTZER, P? OR HIRTZER P?)
S16	1	S14 AND S15
S17	14	(S14 OR S15) AND S3
S18	1	S17 AND S2
S19	0	(S16 OR S18) NOT S12

- Author(s)

Searcher : Shears 571-272-2528

09/393590

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27oct05 13:37:31 User219783 Session D2121.3

Searcher : Shears 571-272-2528

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File 65:Inside Conferences 1993-2005/Oct W4

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File 440:Current Contents Search(R) 1990-2005/Oct 27

(c) 2005 Inst for Sci Info

File 348:EUROPEAN PATENTS 1978-2005/Oct W03

(c) 2005 European Patent Office

File 357:Derwent Biotech Res. 1982-2005/Oct W5

(c) 2005 Thomson Derwent & ISI

File 113:European R&D Database 1997

(c)1997 Reed-Elsevier(UK)Ltd All rts reserv

Set	Items	Description
S1	4607135	(BO OR BOTULIN?) (5N) (NT OR NEUROTOXIN? ? OR TOXIN? ? OR TOX??) OR BOTOX?? OR BONT?? OR BOTX?? OR BTX?? OR (BT OR BN OR - BNT??) (10N) BOTULIN? OR BOTULIN? (3A) (A OR B OR C1 OR C2 OR D OR E OR F OR G)
S2	10936	(BO OR BOTULIN?) (5N) (NT OR NEUROTOXIN? ? OR TOXIN? ? OR TOX??) OR BOTOX?? OR BONT?? OR BOTX?? OR BTX?? OR (BT OR BN OR - BNT??) (10N) BOTULIN? OR BOTULIN? (3N) (A OR B OR C1 OR C2 OR D OR E OR F OR G)
S3	517116	PHOSPHATE OR SUCCINATE OR SUCCINIC OR ACETATE OR CITRATE OR BUTANEDIOIC OR ACETIC
S4	901	S2 AND S3
S5	335	S4 AND (NACL OR (NA OR SODIUM) (W) (CL OR CHLORIDE) OR SALIN-E)
S6	158	S5 AND (HSA(S)ALBUMIN OR SER?? (W)ALBUMIN OR GELATIN? ?)
S7	146	S6 AND BUFFER?
S8	131	S7 AND (TEMP? ? OR TEMPERATURE? ?)
S9	125	S8 AND (PH OR (HYDROGEN OR H) (W) ION)
S10	7	S9 AND (CENTIGRADE OR CELSIUS)
S11	33	S9 AND ((UNIT? ? OR U) (2N) (ML OR MILLILIT? OR MILLI (W) (LIT-ER? OR LITRE?)))
S12	39	S10 OR S11
S13	39	RD (unique items)
S14	173	AU=(MOYER, E? OR MOYER E?)
S15	7	AU=(HIRTZER, P? OR HIRTZER P?)
S16	1	S14 AND S15
S17	14	(S14 OR S15) AND S3
S18	1	S17 AND S2
S19	0	(S16 OR S18) NOT S12